



RF Exposure Evaluation Declaration

FCC ID: CHQ7268T
IC: 2968A-7268T
Applicant: RHINE ELECTRONIC CO LTD
Product: Transmitter
Model No.: UC7268T
FCC Rule Part(s): FCC Part 2.1093 (Portable)
ISED Standard: RSS-102 Issue6
Result: Complies
Evaluation Date: 2026-09-29

Reviewed By:


Paddy Chen

Approved By:


Chenz Ker

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.



Revision History

Report No.	Version	Description	Issue Date	Note
2609TW5401-U2	V1.0	Original Report	2026-10-13	Valid

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1. General Information

1.1. Applicant

RHINE ELECTRONIC CO LTD

No. 29, Feng Li Road, Tan-Zi Dist, Taichung City 42754, Taiwan

1.2. Manufacturer

RHINE ELECTRONIC CO LTD

No. 29, Feng Li Road, Tan-Zi Dist., Taichung City 42754, Taiwan

KAM SHING ELECTRONIC CO., LTD

THE YOUTH INDUSTRIAL ADMINISTRATION PARK, CHENJIANG TOWN, HUICHENG DISTRICT,
HUIZHOU CITY, GUANGDONG, CHINA

1.3. Testing Facility

☒	Test Site 1 - MRT Taiwan Laboratory
	Laboratory Location No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261(Organization CN: 21723)
☐	Test Site 2 - MRT Taiwan Laboratory
	Laboratory Location No. 64, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 933489, TW0041 ISED: TW3261(Organization CN: 36039)

1.4. Product Information

Product Name	Transmitter
Model No.	UC7268T
Specification	433.92 MHz
Antenna Information	Refer to section 1.5
Power Type	By Battery
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Antenna Details

Frequency Range	433.92 MHz
Modulation Technology	ASK
Antenna Type	PCB Antenna
Antenna Gain	-18.20dBi

Note: For other features of this EUT, test report will be issued separately.

1.6. Device Classification

According to the user manual, this device is classified as a Portable Device. So, the RF exposure evaluation requirements of § 2.1093 for portable device exposure conditions subject to SAR limits.

1.7. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 2.1093
- RSS-102 Issue6
- KDB 447498 D04 Interim General RF Exposure Guidance v01

2.1. RF Exposure Evaluation FCC Limits

According to FCC KDB 447498 D04V01 - SAR-Based Exemption

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula .

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

The example values shown as below are for illustration only.

Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

2.2. IC Limits

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power. For controlled use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 5. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5. If the operating frequency of the device is between two frequencies located in Table 1, linear interpolation shall be applied for the applicable separation distance. For test separation distance less than 5 mm, the exemption limits for a separation distance of 5 mm can be applied to determine if a routine evaluation is required.

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	45 mW	116 mW	139 mW	163 mW	189 mW
450	32 mW	71 mW	87 mW	104 mW	124 mW
835	21 mW	32 mW	41 mW	54 mW	72 mW
1900	6 mW	10 mW	18 mW	33 mW	57 mW
2450	3 mW	7 mW	16 mW	32 mW	56 mW
3500	2 mW	6 mW	15 mW	29 mW	50 mW
5800	1 mW	5 mW	13 mW	23 mW	32 mW
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	216 mW	246 mW	280 mW	319 mW	362 mW
450	147 mW	175 mW	208 mW	248 mW	296 mW
835	96 mW	129 mW	172 mW	228 mW	298 mW
1900	92 mW	138 mW	194 mW	257 mW	323 mW
2450	89 mW	128 mW	170 mW	209 mW	245 mW
3500	72 mW	94 mW	114 mW	134 mW	158 mW
5800	41 mW	54 mW	74 mW	102 mW	128 mW

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance.

2.3. Calculated Result

Product	Transmitter
Test Item	RF Exposure Evaluation

For FCC

Mode	Frequency (MHz)	Maximum ERP (dBm)	ERP (mW)	SAR Test Exclusion Threshold (mW)
Sub-1G	433.92	-45.6	<< 1	23.82

For ISSED

Mode	Frequency (MHz)	Maximum ERP (dBm)	ERP (mW)	SAR Test Exclusion Threshold (mW)
Sub-1G	433.92	-43.45	<< 1	33.39

Conclusion:

So, this device can complies the SAR test exclusion.

_____ The End _____