

RF Exposure Evaluation Report

Report Reference No......: **MTWG2207149-H**

FCC ID.....: **2AD6G-R1**

Compiled by

(position+printed name+signature)...: File administrators Alisa Luo

Supervised by

(position+printed name+signature)...: Test Engineer Sunny Deng

Approved by

(position+printed name+signature)...: Manager Yvette Zhou

Date of issue.....: **August 12, 2022**

Representative Laboratory Name.: **Shenzhen Most Technology Service Co., Ltd.**

Address: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name.....: **Rongta Technology (Xiamen) Group Co., Ltd.**

Address: No.88,Tonghui South Road,Tongan,Xiamen,China.

Test specification/ Standard: **47 CFR Part 1.1307**

47 CFR Part 2.1093

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

Shenzhen Most Technology Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Most Technology Service Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Most Technology Service Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: 0.5 inch Label Printer

Trade Mark: N/A

Manufacturer: **Rongta Technology (Xiamen) Group Co., Ltd.**

Model/Type reference.....: RONGTA R1

Listed Models: RONGTA R1A、RONGTA R1B、RONGTA R1C、RONGTA R1D、
RONGTA R1E、RONGTA R1F、RONGTA R1G、
RONGTA R1H、RONGTA R1 Plus、RONGTA R1 Pro

Modulation Type: GFSK, $\pi/4$ DQPSK, 8DPSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: CP-1_MB_YC_BU_V1.0_210917 22AA.BAZIAG

Software Version: R1_BU_YC3121_200DPI_TSPL_V1.13_220524.bin

Rating: DC 5V by USB Port

DC 3.7V by Battery

Result.....: **PASS**

TEST REPORT

Equipment under Test : 0.5 inch Label Printer

Model /Type : RONGTA R1

Listed Models : RONGTA R1A、 RONGTA R1B、 RONGTA R1C、 RONGTA R1D、 RONGTA R1E、
RONGTA R1F、 RONGTA R1G、 RONGTA R1H、 RONGTA R1 Plus、 RONGTA R1 Pro

Remark : Only the name of the product, the name of the model and the color of the appearance are different between the models, other are the same, the differences do not affect the safety and Electromagnetic compatibility of the product.

Applican : **Rongta Technology(Xiamen)Group Co., Ltd.**

Address : No.88,Tonghui South Road,Tongan,Xiamen,China.

Manufacturer : **Rongta Technology(Xiamen)Group Co., Ltd.**

Address : No.88,Tonghui South Road,Tongan,Xiamen,China.

Test Result:**PASS**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.08.12	Initial Issue	Alisa Luo

2. SAR Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

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

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right]$$

 ≤ 3.0 for 1-g SAR and ≤ 7.5 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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

EUT RF Exposure

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-2.126	-2.126 ± 1	-1.126
Middle(2441MHz)	-3.054	-3.054 ± 1	-2.054
Highest(2480MHz)	-5.021	-5.021 ± 1	-4.021

π /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-2.125	-2.125 ± 1	-1.125
Middle(2441MHz)	-3.059	-3.059 ± 1	-2.059
Highest(2480MHz)	-5.015	-5.015 ± 1	-4.015

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-2.122	-2.122 ± 1	-1.122
Middle(2441MHz)	-3.064	-3.064 ± 1	-2.064
Highest(2480MHz)	-5.029	-5.029 ± 1	-4.029

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2402MHz)	-2.122	-1.122	0.77	0.24	3.0	Yes

Note: 1) Refer to report **MTWG2207149-R1** for EUT test Max Conducted average Output Power value.

BLE

GFSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	5.836	5.836 ± 1	6.836	4.82
Middle(2440MHz)	6.978	6.978 ± 1	7.978	6.27
Highest(2480MHz)	6.408	6.408 ± 1	7.408	5.50

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2440MHz)	6.978	7.978	6.27	1.95	3.0	Yes

Note: 1) Refer to report **MTWG2207149-R2** for EUT test Max Conducted average Output Power value.

.....THE END OF REPORT.....