

RF Exposure Evaluation Report

Report Reference No......: **MTWC21100816-H**

FCC ID..... : **2A2GELY2102-01**

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

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Applicant's name: **XIAMEN LIYIN TECHNOLOGY CO.,LTD**

Address: **2F,NO.9,Tianyang road Jimei,xiamen,Fujian,china**

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

47 CFR Part 2.1093

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

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Test item description: **MINI POCKET PRINTER**

Trade Mark: N/A

Manufacturer: **XIAMEN LIYIN TECHNOLOGY CO.,LTD.**

Model/Type reference.....: MP300

Listed Models: MP300S 、 MP310、 MP310S 、 P3、 P3S、 PX3、 PX3S 、 M1、
M2、 M3、 Q1、 Q2、 Q3

Modulation Type.....: GFSK

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

Hardware Version.....: MP310_YC3121_NoSSFlash.bin

Software Version: MP310 V1.0

Rating: DC 7.4V by Battery
DC 5V(by USB)

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

TEST REPORT

Equipment under Test : MINI POCKET PRINTER

Model /Type : MP300

Listed Models : MP300S 、 MP310、 MP310S 、 P3、 P3S、 PX3、 PX3S 、 M1、 M2、 M3、 Q1、 Q2、 Q3

Remark : Only different in model name and appearance

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Test Result:	PASS
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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	2021.11.16	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.09	3.09 ± 1	4.09	2.56
Middle(2440MHz)	4.91	4.91 ± 1	5.91	3.89
Highest(2480MHz)	6.40	6.40 ± 1	7.40	5.49

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2480MHz)	6.40	7.40	5.49	1.73	3.0	Yes

BT classic

GFSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.674	2.674 ± 1	3.674	2.33
Middle(2440MHz)	4.639	4.639 ± 1	5.639	3.66
Highest(2480MHz)	6.067	6.067 ± 1	7.067	5.08

$\pi/4$ DQPSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.848	1.848 ± 1	2.848	1.93
Middle(2440MHz)	3.678	3.678 ± 1	4.678	2.94
Highest(2480MHz)	6.139	6.139 ± 1	7.139	5.17

8DPSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.859	1.859 ± 1	2.859	1.93
Middle(2440MHz)	3.678	3.678 ± 1	4.678	2.94
Highest(2480MHz)	5.171	5.171 ± 1	6.171	4.14

Worst case: $\pi/4$ DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	6.139	7.139	5.17	1.63	3.0	Yes

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