



MPE Test Report

Report No.: WKE-18DE2149VTSHPB-2

FCC ID: 2AT6A-VMGT3000

Product: Wireless Label Printer

Model: GT3000, GT3030, VM3000, VM3030

Received Date: Dec. 28, 2018

Test Date: Dec.28,2018 to Mar.18, 2019

Issued Date: Sept.10, 2019

Applicant: Varicut(Shanghai)Electronics Component Co. ,Ltd.

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Manufacturer: Varicut(Shanghai)Electronics Component Co. ,Ltd.

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
WKE-18DE2149VTSHPB-2	Original release	Sept.10, 2019

1 Certificate of Conformity

Product: Wireless Label Printer

Brand: --

Model: GT3000, GT3030, VM3000, VM3030

Applicant: Varicut(Shanghai)Electronics Component Co., Ltd.

Test Date: Dec.28,2018 to Mar.18, 2019

Standards: FCC Part 2 (Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :


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, **Date:** Sept.10, 2019

Project Engineer

Approved by :


Daniel SUN

, **Date:** Sept.10, 2019

RF Supervisor

2 General Information

2.1 General Description of EUT

Product	Wireless Label Printer
Brand	--
Test Model	GT3000, GT3030, VM3000, VM3030
Model Difference	The appearance, structure and function are all the same, Only with different model names
Power Rating	AC 120Vac/60Hz
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 4.1
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	1.3dBi

Note: For more details, please refer to the User's manual of the EUT.

3 RF Exposure Measurement

According to §15.247(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.

3.1 Test requirement

According to KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f (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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to f) in section 4.1 is applied to determine SAR test exclusion.

3.2 Calculation Result of Maximum Exposure

Channel	Transmit Frequency (MHz)	Mode	Measured Power		Tune-up Tolerance (dBm)	Min. Separation distance (mm)	Calculation Result	1-g SAR
			dBm	mw				
0	2402	GFSK	2.36	1.722	2±1	5	0.620	3
19	2440	GFSK	-0.95	0.804	0±1	5	0.393	3
39	2480	GFSK	-0.85	0.822	0±1	5	0.397	3

Conclusion:

The calculation result of MPE is less than the limit, and no simultaneous SAR measurement is required.

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