



FCC RF EXPOSURE REPORT

For

Thermal Transfer Label Printer

MODEL NUMBER: THERMOMARK GO

FCC ID: YG3-TM-GO

IC ID: 4720B-TM-GO

PROJECT NUMBER: 4789342611

REPORT NUMBER: 4789342611-2

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Prepared for

PHOENIX CONTACT GmbH & Co. KG

Prepared by

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: PHOENIX CONTACT GmbH & Co. KG
Address: Flachsmarktstr. 8 32825 Blomberg, Germany

Manufacturer Information

Company Name: PHOENIX CONTACT GmbH & Co. KG
Address: Flachsmarktstr. 8 32825 Blomberg, Germany

Factory Information

Company Name: VARICUT (SHANGHAI) ELECTRONICS COMPONENT Co., LTD.
Address: No.655, Fengmao Rd, Malu Town, Jiading District, Shanghai, China

EUT Description

EUT Name: Thermal Transfer Label Printer
Model: THERMOMARK GO
Sample Status: Normal
Sample Received Date: Mar. 30, 2020
Date of Tested: Apr. 23, 2019 ~ Apr 30, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OATS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density				
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.				
Note 3: The limit value 1.0mW/cm ² is available for this EUT.				

MPE CALCULATION METHOD

$$S = PG / (4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW) (the measured power value see Report: F12124 Section 6.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

BLE (Worst case)						
Max. Tune up Power		Antenna Gain		Power Density	Limit	Test Result
(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
4.5	2.82	0.5	1.12	0.0006	1	Complies

Note: the calculated distance is 20cm.

END OF REPORT