RF TEST REPORT

Product Name: PeriMonkey Tattoo Transfer Printer

Model Name: ALD-P910, P90, P91, P91s, P92, P93, ALD-P900, ALD-P920, ALD-P930

FCC ID: 2ASPY-ALD-P910

Issued For : Xiamen Ilead Tek Co., Ltd.

Room 01, Unit 2101, No.50 Chengyi North Street, Software Park Phase III, Xiamen, Fujian, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT25A044HA01
Sample Received Date:	Jan. 10, 2025
Date of Test:	Jan. 10, 2025 ~ Feb. 18, 2025
Date of Issue:	Feb. 18, 2025

TEST REPORT CERTIFICATION

Applicant:	Xiamen Ilead Tek Co., Ltd.
Address:	Room 01, Unit 2101, No.50 Chengyi North Street, Software Park Phase III, Xiamen, Fujian, China
Manufacturer:	Xiamen Ilead Tek Co., Ltd.
Address:	Room 01, Unit 2101, No.50 Chengyi North Street, Software Park Phase III, Xiamen, Fujian, China
Product Name:	PeriMonkey Tattoo Transfer Printer
Trademark:	PeriPage / PeriMonkey
Model Name:	ALD-P910
Series Model:	P90, P91, P91s, P92, P93, ALD-P900, ALD-P920, ALD-P930
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

TABLE OF CONTENTS

Revision History

Rev.	Issue Date	Revisions
00	Feb. 18, 2025	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	PeriMonkey Tattoo Transfer Printer	
Trademark:	PeriPage / PeriMonkey	
Model Name:	ALD-P910	
Series Model:	P90, P91, P91s, P92, P93, ALD-P900, ALD-P920, ALD-P930	
Model Difference:	Only sales channel differences.	
Frequency Bands:	Bluetooth	2402-2480MHz
Rating:	Input: DC 5V/2A	
Hardware Version:	P91-V1	
Software Version:	N/A	

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.
Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)
Limits for Occupational / controlled Exposures			
0.3-3.0	614	1.63	*(100)
3.0-30	1842/f	4.89/f	*($900/f^2$)
30-300	61.4	0.163	1.0
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*($180/f^2$)
30-300	27.5	0.073	0.2
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

* = Plane-wave equivalent power density.

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
BT-GFSK	-9±1dBm
BT-π/4-DQPSK	-8.5±1dBm
BT-8DPSK	-8.5±1dBm
BLE-GFSK	-7.5±1dBm

The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Ratio	Result
BT	2441	-7.50	0.18	3.14	2.06	0.00007	1	0.00007	Pass
BLE	2480	-6.50	0.22	3.14	2.06	0.00009	1	0.00009	Pass

Note:

1. The Maximum Power Density is less than the limit, complies with the exemption requirements.

※※※※※END OF THE REPORT※※※※※