

MPE REPORT

FCC ID: 2AUJS-L1

Date of issue: July 15, 2020

Report number: MTi20061213-11E3

Sample description: Poooli Smart Pocket Printer

Model(s): L1, Poooli L1

Applicant: Xiao Hao(Shenzhen)Technology Co., Ltd.

Address: 2#2407, C District, Nanshan Zhiyuan, Nanshan District,

Shenzhen, China

Date of test: July 01, 2020 to July 15, 2020

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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TEST RESULT CERTIFICATION					
Applicant's name:	Xiao Hao(Shenzhen)Technology Co., Ltd.				
Address:	2#2407, C District, Nanshan Zhiyuan, Nanshan District, Shenzhen, China				
Manufacture's name:	Xiao Hao(Shenzhen)Technology Co., Ltd.				
Address:	2#2407, C District, Nanshan Zhiyuan, Nanshan District, Shenzhen, China				
Product name:	Poooli Smart Pocket Printer				
Trademark:	poooli				
Model and/or type reference:	L1				
Serial model:	Poooli L1				
RF exposure procedures:	KDB 447498 D01 v06				

This device described above has been tested by Shenzhen Microtest Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:	Janny Du					
	Danny Xu	July 15, 2020				
Reviewed by:	<	teo su				
	Leo Su	July 15, 2020				
Approved by:	_	tom Xue				
	Tom Xue	July 15, 2020				

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RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of 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)	Averaging time (minutes)	
	(A) Limits for 0	ccupational/Controlled Exp	osure		
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/	f 4.89/1	*900/f ²	6	
30-300	61.4	61.4 0.163		6	
300-1,500			f/300	6	
1,500-100,000			5	6	
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure		
0.3-1.34	614	1.63	*100	30	
1.34-30	824/	f 2.19/1	*180/f ²	30	
30-300	27.5	0.073	0.2	30	
300-1,500			f/1500	30	
1,500-100,000			1.0	30	

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

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Measurement Result

Operation Frequency: BT/BLE: 2402-2480MHz

Power density limited: 1mW/ cm²

Antenna Type: PCB Antenna;

WIFI antenna gain: 1dBi

R=20cm

mW=10^(dBm/10)

antenna gain Numeric=10^(dBi/10)= 10^(1/10)=1.26

Channel Freq. (MHz)	modulation	conducted power	Tune- up power	Max		Antenna		Evaluation result	Power density Limits
		(dD:)		tune-up power		Gain		(ma) A / (ama 2)	(ma) (/ / a ma ())
	(dBm)	(dBm)	(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)	
2402		4.439	5±1	6	3.981	1.00	1.26	0.0010	1
2441	GFSK	4.897	5±1	6	3.981	1.00	1.26	0.0010	1
2480		5.528	5±1	6	3.981	1.00	1.26	0.0010	1
2402	π/4- DQPSK	3.313	4±1	5	3.162	1.00	1.26	0.0008	1
2441		4.077	4±1	5	3.162	1.00	1.26	0.0008	1
2480		4.659	4±1	5	3.162	1.00	1.26	0.0008	1
2402		3.049	4±1	5	3.162	1.00	1.26	0.0008	1
2441	8DPSK	4.332	4±1	5	3.162	1.00	1.26	0.0008	1
2480		4.922	4±1	5	3.162	1.00	1.26	0.0008	1

Channel Freq. modulation		conducted power	Tune- up	Max		Antenna		Evaluation result	Power density Limits
(MHz)		(dBm)	power (dBm)	tune-up power		Gain		(mW/cm2)	(mW/cm2)
				(dBm)	(mW)	(dBi)	Numeric	(IIIVV/CIIIZ)	(IIIVV/CIIIZ)
2402		4.232	5±1	6	3.981	1.00	1.26	0.0010	1
2440	GFSK	4.979	5±1	6	3.981	1.00	1.26	0.0010	1
2480		5.648	5±1	6	3.981	1.00	1.26	0.0010	1

Conclusion:

For the max result: 0.0010≤ 1.0 for 1g SAR, No SAR is required.

----END OF REPORT----

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