

■ Report No.: DDT-R19080603-1E3

■Issued Date: Sep. 10, 2019

RF EXPOSURE REPORT

FOR

Applicant	:	PRAISE PERFECTION LIMITED				
Address	•	FLAT C, 10/F., PHASE 4, KWUN TONG IND. CTR., 472-478 KWUN TONG RD., KWUN TONG, KL. HK				
Equipment under Test		Bluetooth Portable CD Radio				
Model No.	•	MET36E, MET36, MPC5050, MPC-5050, MPC 5050, PL-36E, PL-36, MPC5050BT, MPC-5050UN, MPC-5050BTUN				
Trade Mark	ij	MET, Hamilton, HB Hamilton, PLL				
FCC ID	•	2ASQA-39336E				
Manufacturer	:	PRAISE PERFECTION LIMITED				
Address	•	FLAT C, 10/F., PHASE 4, KWUN TONG IND. CTR., 472-478 KWUN TONG RD., KWUN TONG, KL. HK				

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-38826678, **E-mail:** ddt@dgddt.com, http://www.dgddt.com



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TEST REPORT DECLARE

: PRAISE PERFECTION LIMITED				
:	FLAT C, 10/F., PHASE 4, KWUN TONG IND. CTR., 472-478 KWUN TONG RD., KWUN TONG, KL. HK			
:	Bluetooth Portable CD Radio			
. MET36E, MET36, MPC5050, MPC-5050, MPC 5050, PL-36E, PL-36, MPC5050BT, MPC-5050UN, MPC-5050BTUN				
:	MET, dB Hamilton, dB Hamilton, PLL			
	PRAISE PERFECTION LIMITED			
ESTING	FLAT C, 10/F., PHASE 4, KWUN TONG IND. CTR., 472-478 KWUN TONG RD., KWUN TONG, KL. HK			

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No: DDT-R19080603-1E3		DONO E			
Date of Receipt:	Aug. 07, 2019	Date of Test:	Aug. 07, 2019 ~ Sep. 10, 2019		

Prepared By:

Sam Li/Engineer

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Approved By

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Sep. 10, 2019	
	DONG DIAN TESTING	MANUTESTING DOWN TESTING	ir

1. General information

1.1. Description of Equipment

EUT* Name	:	: Bluetooth Portable CD Radio				
Model Number	:	MET36E, MET36, MPC5050, MPC-5050, MPC 5050, PL-36E, PL-36, MPC5050BT, MPC-5050UN, MPC-5050BTUN				
Difference of model number		All models are identical except the color and brand, therefore the test performed on the model MET36E.				
EUT function description	:	Please reference user manual of this device				
Power supply	:	DC 6.0V/1.2A from external AD/DC adapter				
Adapter	•	INPUT: 100-240V~50/60Hz 0.8A OUTPUT: 6.0V/1.2A				
Radio Specification	:	Bluetooth V4.2				
Operation frequency	:	2402MHz-2480MHz				
Modulation	:	GFSK, π/4-DQPSK				
Data rate	: 1Mbps, 2Mbps					
Antenna Type	: Integral PCB antenna, maximum PK gain: -0.68 dBi					
Sample Type	:	Series production				

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

2. RF Exposure evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR 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.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)			Strength (E) Strength (H) Power		Power Density (S) (mW/ cm ²)	Averaging Time $ \mathbf{E} ^2$, $ \mathbf{H} ^2$ or S (minutes)	
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f)*	30			
30-300	27.5	0.073	0.2	30			
300-1500			F/1500	30			
1500-100,000			1.0	30			

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

2.2. Calculation Method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation Result

	PK Output	Output	Antenna	Antenna	MPE	MPE
Mode	power	power	Gain	Gain	Values	Limit
	(dBm)	(mW)	(dBi)	(linear)	(mW/cm ²)	(mW/cm ²)
Bluetooth Max power	3.77	2.38	-0.68	0.86	0.0004072	1

Note: The estimation distance is 20cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

END OF REPORT