



TEST REPORT

Reference No...... : WTF22F12257769W002
FCC ID : 2A9YP-BM1816
Applicant..... : Dongguan Powerme Tech. Co., Ltd.
Address..... : No.485 Shichong Avenue, Shipai Town, Dongguan City, Guangdong Province, 523330, China
Manufacturer : The same as above
Address..... : The same as above
Product Name..... : LED Mirror
Model No...... : BM-1816
Test specification..... : FCC CFR47 Part 1 Subpart I (Section 1.1307): 2020
Date of Receipt sample : 2022-12-23
Date of Test..... : 2022-12-24 to 2022-12-26
Date of Issue..... : 2023-02-02
Test Report Form No. : WEW-MPE-01A
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

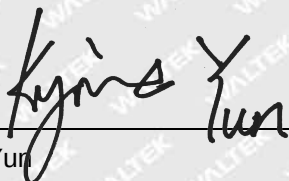
Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City,
Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398

Fax:+86-757-23811381

E-mail:info@waltek.com.cn

Tested by:


Kyrie Yun

Approved by:


Danny Zhou





1 Revision History

Test Report No.	Date of Issue	Description	Status
WTF22F12257769W002	2023-02-02	Original	Valid

WALTEK



2 Contents

	Page
1 REVISION HISTORY.....	2
2 CONTENTS.....	3
3 GENERAL INFORMATION.....	4
3.1 GENERAL DESCRIPTION OF E.U.T.....	4
3.2 TECHNICAL CHARACTERISTICS OF EUT	4
3.3 DISCLAIMER.....	4
4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)	5
4.1 STANDARD APPLICABLE.....	5
4.2 MPE CALCULATION METHOD.....	6
4.3 MPE CALCULATION RESULT.....	6

WALTEK



3 General Information

3.1 General Description of E.U.T

Product Name : LED Mirror
Model No. : BM-1816
Model Description : ---
Rated Voltage..... : USB port: DC 5V
Battery: 3.7V, 2800mAh
Battery Capacity : ---
Power Adapter : ---

3.2 Technical Characteristics of EUT

Bluetooth Version : V5.1(BR+EDR mode)
Frequency Range : 2402-2480MHz
Max. RF Output Power : -3.125dBm (Conducted)
Modulation : GFSK , $\pi/4$ DQPSK
Data Rate : 1Mbps, 2Mbps
Quantity of Channels : 79
Channel Separation..... : 1MHz
Type of Antenna : MIFA Antenna
Antenna Gain : -6.34dBi
Lowest Oscillation..... : 24MHz

3.3 Disclaimer

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.



4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

4.1 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(a) Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

(b) 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 Times 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)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

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



4.2 MPE Calculation Method

$$S = (30 \cdot P \cdot G) / (377 \cdot R^2)$$

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

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

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

4.3 MPE Calculation Result

Prediction distance (mm)	Prediction frequency (MHz)	Antenna Gain (dBi)	Numeric gain	Maximum Tune-up output power (dBm)	Maximum peak output power (mW)	PD (mW/cm ²)	Limit (mW/cm ²)
>200	2480	-6.34	0.23	-3.125	0.487	0.0000225	1.0

Result: Pass

=====End of Report=====

WALTEK