

# Jasco Products Company LLC

## MPE ASSESSMENT REPORT

**Report Type:**

FCC MPE assessment report

**Model:**

WFD7109, WFD7110, WFD7111

**REPORT NUMBER:**

210503253SHA-003

**ISSUE DATE:**

December 6, 2021

**DOCUMENT CONTROL NUMBER:**

TTRFFCCMPE-01\_V1 © 2018 Intertek



## TEST REPORT

**Applicant:** Jasco Products Company LLC  
10 E. Memorial Rd., Oklahoma City, Ok. 73114

**Manufacturer:** Xiamen Topstar Lighting Co.,Ltd  
No. 676, Meixi Road, Tong'an, Xiamen | 361000

**Factory:** Xiamen Topstar Lighting Co.,Ltd  
No. 676, Meixi Road, Tong'an, Xiamen | 361000

**FCC ID:** QOB-WFDF

## SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:


KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:

REVIEWED BY:

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Project Engineer  
Sky Yang



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Reviewer  
Eric Li

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## Revision History

Report No.	Version	Description	Issued Date
210503253SHA-003	Rev. 01	Initial issue of report	December 6, 2021

## 1 GENERAL INFORMATION

### 1.1 Description of Equipment Under Test (EUT)

Product name:	Self-ballasted LED Lamp
Type/Model:	WFD7109, WFD7110, WFD7111
Description of EUT:	The EUT is a LED lamp with WIFI and Bluetooth function. All models are same except shape of glass bulb.
Rating:	AC120V, 60Hz, 7W, 120mA
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	June 01, 2021
Date of test:	June 02, 2021 ~ June 28, 2021

### 1.2 Technical Specification

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20) 7 Channels for 802.11n(HT40)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7 IEEE 802.11n-HT40: Up to MCS7
Channel Separation:	5 MHz

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth LE
Type of Modulation:	GFSK
Channel Number:	40 (0 - 39)
Data Rate:	1Mbps
Channel Separation:	2 MHz

Antenna information:			
No.	Antenna Type	Gain (dBi)	Note
1	Monopole Antenna	2.69	-

### 1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

## 2 MPE Assessment

Test result: Pass

### 2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density $S_{eq}$ (W/m <sup>2</sup> )
0-1 Hz	-	$3,2 \times 10^4$	$4 \times 10^4$	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	-
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	-
0,8-3 kHz	$250/f$	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	$0,73/f$	$0,92/f$	-
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$**

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### 2.2 Assessment Results

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm<sup>2</sup>

P = Radiated transmit power in mW

R = distance (cm)

As we can see from the test report 210503253SHA-001 and 210503253SHA-002:

Here R is chosen to be 20cm,

Mode	Frequency Range	P		R	S	Limits
	(MHz)	dBm	mW	(cm)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
WIFI	2412 - 2462	19.32	85.51	20	0.0170	1
BLE	2402 - 2480	7.30	5.37	20	0.0011	1

## Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

\*\*\*\*\* END \*\*\*\*\*