

RF Exposure Evaluation Report

Product : OBE Smart Projector
Trade mark : N/A
Model/Type reference : Minions 3, Minions*****
Serial Number : N/A
Report Number : EED32R81101005
FCC ID : 2BRQF-MINIONS3
Date of Issue : Aug. 15, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

OBE TECHNOLOGY INC
595 S Green Valley Pkwy, APT 2322, Henderson, Nevada 89012,
United States

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385



Compiled by:

Keven Tan.

Keven Tan

Approved by:

Aaron Ma

Aaron Ma

Reviewed by:

Frazer. Li

Frazer Li

Date:

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Check No.: 5218020725

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2 General Information

2.1 Client Information

Applicant:	OBE TECHNOLOGY INC
Address of Applicant:	595 S Green Valley Pkwy, APT 2322, Henderson, Nevada 89012, United States
Manufacturer:	Shenzhen Orange Digital Technology Co.,Ltd.
Address of Manufacturer:	Room 2305, Building 2, Phase 6, Vanke Yuncheng, Tongfa South Road, Xili Community, Xili Street, Nanshan District,Shenzhen, Guangdong Province, P.R. China
Factory:	Chuzhou OBE Digital Technology Co.,LTD
Address of Factory:	Floor 3th,building 21& building 7, Zhaoyang Industrial Park, 801 century avenue, Chuzhou city, Anhui Province, P.R. China

2.2 General Description of EUT

Product Name:	OBE Smart Projector
Model No.(EUT):	Minions 3, Minions*****
Test Model No.:	Minions 3
Trade Mark:	N/A
Remark: Model No.: Minions 3, Minions*****("*" = Any character including 0-9, A-Z, a-z, -, _, or space.) The difference being only the color of the shell, the model names are different, but the rest are the same. So only the model Minions 3 was tested.	

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1: 5150-5250MHz U-NII-2A: 5250-5350MHz U-NII-2C:5470-5725MHz U-NII-3:5745-5825MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK, BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Test Power Grade:	Default
Test Software of EUT:	SecureCRT.exe
Antenna Type:	FPC antenna
Antenna Gain:	BLE/BT: 2.83dBi 2.4G Wi-Fi: ANT 0: 2.58dBi, ANT 1: 2.55dBi

	5G Wi-Fi: ANT 0: 2.47dBi, ANT 1: 2.60dBi	
Power Supply:	Adapter:	Input:AC 100V~240V,Output:DC 12V/4A
Sample Received Date:	Jul. 03, 2025	
Sample tested Date:	Jul. 03, 2025 to Jul. 10, 2025	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

BLE:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	20	3.4	2.83	4.08	2.5586	3060	0.0008	Pass

BT:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	20	1.86	2.83	2.54	1.7947	3060	0.0006	Pass

2.4G Wi-Fi:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	20	15.9	2.55	16.30	42.6580	3060	0.0139	Pass

5G Wi-Fi:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@5GHz U-NII-1	20	13.82	2.47	14.14	25.9418	3060	0.0085	Pass
@5GHz U-NII-2A	20	13.57	2.60	14.02	25.2348	3060	0.0082	Pass
@5GHz U-NII-2C	20	15.1	2.47	15.42	34.8337	3060	0.0114	Pass
@5GHz U-NII-3	20	13.47	2.60	13.92	24.6604	3060	0.0081	Pass

Note:

①EIRP=conducted power+antenna gain;

②ERP=EIRP-2.15;

③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ERP(mW) = $10^{(ERP (dBm)/10)}$;

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⑤The estimation distance is 20cm;

⑥The test data please refer to the report of EED32R81101001, EED32R81101002, EED32R81101003, EED32R81101004 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi+5G WiFi)=0.0008+0.0139+0.0114=0.0261 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***