RF Exposure Evaluation Report

Product	:	AIR PURIFIER
Trade mark	:	Pureborne
Model/Type reference	:	PB6866-WF
Serial Number	:	N/A
Report Number	:	EED32R80162703
FCC ID	:	2BPT6-PB6866
Date of Issue	:	Aug. 13, 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:

Guangzhou WanTe Office Equipment Co., Ltd.
Room C3816-1, Self built Building 1, No. 2 Helong 1st Road, Baiyun District, Guangzhou City, Guangdong Province

Prepared by:

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Check No.:5026130225

1 Contents

2 General Information

2.1 Client Information

Applicant:	Guangzhou WanTe Office Equipment Co., Ltd.
Address of Applicant:	Room C3816-1, Self built Building 1, No. 2 Helong 1st Road, Baiyun District, Guangzhou City, Guangdong Province
Manufacturer:	Guangdong Cinotex Environmental Sci-Tech Co., ltd.
Address of Manufacturer:	No.10 Shashui Road, Shaxi Town, Zhongshan City, Guangdong Province, China
Factory:	Guangdong Cinotex Environmental Sci-Tech Co., ltd.
Address of Factory:	No.10 Shashui Road, Shaxi Town, Zhongshan City, Guangdong Province, China

2.2 General Description of EUT

Product Name:	AIR PURIFIER
Model No.(EUT):	PB6866-WF
Trade Mark:	Pureborne

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	BLE: GFSK 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) : OFDM (64QAM, 16QAM, QPSK, BPSK)	
Test Power Grade:	Default	
Test Software of EUT:	BLE: RTLBTAPP V5.2.2.62 2.4G Wi-Fi: UI_mptool	
Antenna Type:	BLE: PCB Antenna 2.4G Wi-Fi: PCB Antenna	
Antenna Gain:	2.54dBi	
Power Supply:	Adapter:	DC 24V
Sample Received Date:	Mar. 03, 2025	
Sample tested Date:	Mar. 03, 2025 to Mar. 07, 2025	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, 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 Pth (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). Pth is given by Formula

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

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 ERP20cm is per Formula (B.1).

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

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:

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	6.1	2.54	6.49	4.4566	3060	0.0015	Pass

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	12.52	2.54	12.91	19.5434	3060	0.0064	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);

⑤The estimation distance is 20cm;

⑥The test data please refer to the report of EED32R80162701,EED32R80162702 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE rato (BLE+2.4G Wi-Fi)= 0.0015+0.0064=0.0079＜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 ***