

### Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Rep	ort
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Compiled by

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Date of issue...... March 03,2023

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... Shenzhen Lanbiaoyi Technology Co., Ltd.

Futian Dist., Shenzhen Guangdong China 518000

Test specification/ Standard ...........: 47 CFR Part 1.1307;47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Alisa Luo Sunny Ding Witter

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description ...... PEDESTAL FANS

Trade Mark ...... Ofuzzi

Manufacturer ...... Shenzhen Lanbiaoyi Technology Co., Ltd.

Model/Type reference...... Breeze 10 Pro+

Listed Models ...... Breeze 10

Modulation Type ...... GFSK/CCK/DSSS/ OFDM

Operation Frequency...... GFSK: From 2402 - 2480MHz

CCK/DSSS/ OFDM :From 2412 - 2462MHz

Input: 100-240V~50/60Hz 0.6A

Rating ...... Output: 12V=2.0A

DC 12V by Battery

Hardware version ....... DMFS-P2 B1 CTRL-V2.0

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## TEST REPORT

Equipment under Test : PEDESTAL FANS

Model /Type : Breeze 10 Pro+

Listed Models : Breeze 10

Remark Only the model name is different.

Applicant : Shenzhen Lanbiaoyi Technology Co., Ltd.

Address : RM.1438F, Anjier Bldg., NO.52 Bagua 4th ST., Yuanling Ave.,

Futian Dist., Shenzhen Guangdong China 518000

Manufacturer : Shenzhen Lanbiaoyi Technology Co., Ltd.

Address : RM.1438F, Anjier Bldg., NO.52 Bagua 4th ST., Yuanling Ave.,

Futian Dist., Shenzhen Guangdong China 518000

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.03.03	Initial Issue	Alisa Luo

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# 2. SAR Evaluation

## 2.1 RF Exposure Compliance Requirement

### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

## **2.1.2 Limits**

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposu	res	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6
(B) Limits 1	or General Populati	on/Uncontrolled Ex	posure	
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout\*G)/(4\* Pi \* R 2) Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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# 2.1.3 EUT RF Exposure

Antenna Gain: 2.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.4 in linear scale. Output

Power Into Antenna & RF Exposure Evaluation Distance:

WIFI 2.4G

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		802.11b	
Test channel	Peak Output Power Tune up to	Tune up tolerance	Maximum tune-up Power
	(dBm)	(dBm)	(dBm)
Lowest(2412 MHz)	15.02	15.02±1	16.02
Middle(2437MHz)	15.33	15.33±1	16.33
Highest(2462MHz)	15.10	15.10±1	16.10

802.11g					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2412 MHz)	15.41	15.41±1	16.41		
Middle(2437MHz)	16.32	16.32±1	17.32		
Highest(2462MHz)	16.30	16.30±1	17.30		

802.11n(HT20)				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2412 MHz)	16.12	16.12±1	17.12	
Middle(2437MHz)	15.36	15.36±1	16.36	
Highest(2462MHz)	17.10	17.10±1	18.10	

## WIFI

Worst case: 802.11n(HT20)						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2462 MHz)	18.10	64.56	2.5	0.022	1.0	Pass

Note: 1) Refer to report MTEB23030016-R2 for EUT test Max Conducted average Output Power value.

Note: 2) Pd = (Pout\*G)/(4\* Pi \* R2)=( 64.56\*1.77)/(4\*3.1416\*202)=0.022

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Note: 3 )EUT's Bluetooth module is more than 20cm away from the human body.

BLE Antenna Gain: 2.5dBi

GFSK					
Test channel	Peak Output Power Tune up tolerance		Maximum tu	ne-up Power	
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.376	-1.376±1	-0.376	0.91	
Middle(2440MHz)	-0.286	-0.286±1	1.286	1.34	
Highest(2480MHz)	0.893	0.893±1	1.893	1.54	

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2440MH z)	1.893	1.54	2.5	0.0005	1.0	Pass

Note: 1) Refer to report MTEB23030016-R1 for EUT test Max Conducted average Output Power value.

Note: 2) Pd = (Pout\*G)/(4\* Pi \* R2)=(1.54\*1.77)/(4\*3.1416\*202)=0.0005

Note: 3 )EUT's Bluetooth module is more than 20cm away from the human body.

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