

Shenzhen HTT Technology Co., Ltd.

RF Exposure MPE

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Date of issue Mar. 05, 2025

Testing Laboratory Name...... Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park,
Address...... Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an

District, Shenzhen, Guangdong, China

Applicant's name.....: Guangdong Baixiang Environmental Technology Co., Ltd

47CFR §1.1310

Standard...... 47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description Scent Diffuser Pro 2

Manufacturer Guangdong Baixiang Environmental Technology Co., Ltd

Trade Mark Scentiment

Model/Type reference Scent Diffuser Pro 2

Operation Frequency...... From 2412MHz~2462MHz

MODEL NO: D120-12V12WUS

Rating: INPUT: AC100-240V, 50/60Hz, 0.3A

OUTPUT: DC 12V, 1.0A

Result: PASS

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TEST REPORT

Equipment under Test : Scent Diffuser Pro 2

Model /Type : Scent Diffuser Pro 2

Listed Models : SS2000, HVAC Diffuser, Scent Diffuser Pro 2,

Diffuseur de Parfum Pro 2, Difusor de Aroma Pro 2

Model difference : The PCB board, circuit, structure and internal of these models are the

same, Only model number is different for these model.

Applicant : Guangdong Baixiang Environmental Technology Co., Ltd

Address : 6& 7th Floor, Building H, Lingyun Technology Park, No. 43 East

Jinshi Avenue, Shiling Town, Huadu District, Guangzhou, China

Manufacturer : Guangdong Baixiang Environmental Technology Co., Ltd

Address : 6& 7th Floor, Building H, Lingyun Technology Park, No. 43 East

Jinshi Avenue, Shiling Town, Huadu District, Guangzhou, China

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 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

<u>FCC KDB 447498 D01 General RF Exposure Guidance v06:</u> Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

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2 SUMMARY

2.1 General Remarks

Date of receipt of test sample		Feb. 20, 2025
Testing commenced on	:	Feb. 20, 2025
Testing concluded on	:	Mar. 05, 2025

2.2 Product Description

Product Name:	Scent Diffuser Pro 2
Model No.:	Scent Diffuser Pro 2
Series model:	SS2000, HVAC Diffuser, Scent Diffuser Pro 2, Diffuseur de Parfum Pro 2, Difusor de Aroma Pro 2
Test sample(s) ID:	HTT202502686-1(Engineer sample) HTT202502686-2(Normal sample)
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(HT20): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PCB Antenna
Antenna gain:	0.00 dBi
Power supply:	DC 12.0V
Adapter Information:	MODEL NO: D120-12V12WUS INPUT: AC100-240V, 50/60Hz, 0.3A OUTPUT: DC 12V, 1.0A

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen HTT Technology Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HTT Technology Co.,Ltd.:

Test	Range		Notes
Radiated Emission	9KHz~30MHz	3.12 dB	(1)
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)

4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Occ	cupational/Control	lled Exposure	
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/f ²)* 1.0 f/300 5	6 6 6 6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Electric Field Strength(V/m)		1		Averaging Time (minute)	
	Limits for Occ	cupational/Control	led Exposure	,	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 824/f 27.5 /	1.63 2.19/f 0.073 /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30	

F=frequency in MHz

4.2 MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

4.3 Conducted Power Results

^{*=}Plane-wave equivalent power density

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)
000 445	CICO	2412	14.35
802.11b	SISO	2437	14.69
		2462	14.70
		2412	17.07
802.11g	SISO	2437	17.44
		2462	17.38
802.11n		2412	16.95
(HT20)	SISO	2437	17.41
(11120)		2462	17.34

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
2.4GWIFI	17.44	17.0±1

4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

	Outp	ut power	Antenna	Antenna	MPE	MPE
Modulation Type	dBm mW	Gain	Gain (mW/cm	(mW/cm ²)	Limits	
	וום	11100	(dBi)	(linear)	(11177/0111)	(mW/cm ²)
2.4GWIFI	18.0	63.0957	0.0	1.000	0.0126	1.0000

Remark:

- 1. Output power (Peak) including turn-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

5 <u>Conclusion</u>

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

