

EMC-TRF-03 Rev 1.1

Report No.: GZCR240500058104 Page: 1 of 9 FCC ID: 2BMHB-CF2130TS

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2405000581HS
Applicant:	Comefresh(Xiamen) Electronic Co., Ltd.
Address of Applicant:	F2-4, No.35, Xiangyue Road, Xiang'an District, Xiamen, Fujian, P.R.China
Manufacturer:	Comefresh(Xiamen) Electronic Co., Ltd.
Address of Manufacturer:	F2-4, No.35, Xiangyue Road, Xiang'an District, Xiamen, Fujian, P.R.China
Factory:	Comefresh(Xiamen) Electronic Co., Ltd.
Address of Factory:	F2-4, No.35, Xiangyue Road, Xiang'an District, Xiamen, Fujian, P.R.China
Product Name:	Humidifier
Model No.:	CF-2130TS
Trade Mark:	Comefresh
Standard(s) :	KDB447498D01 General RF Exposure Guidance v06
	47 CFR Part 1.1310
Date of Receipt:	2024-05-31
Date of Evaluation:	2024-06-06 to 2024-06-13
Date of Issue:	2025-02-14
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.

Uday Liu

Ricky Liu Manager



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Revision Record						
Version Report No. Date Remark						
01	GZCR240500058104	2025-02-14	Original			

Authorized for issue by:		
	Pank Feng	
	Pank Feng/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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Evaluation Summary 2

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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General Information 4

4.1 Details of E.U.T.

Power supply:	AC 120V 60Hz 25W
	Ultrasonic operating frequency: 1.7MHz
Cable:	AC mains
RF Parameter:	Please refer to test report GZCR240500058102 for BLE details
	Please refer to test report GZCR240500058103 for 2.4GHz Wi-Fi details

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 Tel: +86 20 82155555 No tests were sub-contracted.



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4.3 Facility

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

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 General Description of Applied Standards

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.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	I/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 6
(B) Limits	for General Populati	ion/Uncontrolled Exp	oosure	
0.2_1.24	614	1.62	*(100)	30

0.3–1.34	614	1.63	*(100)	30			
1.34–30	824/f	2.19/f	*(180/f ²)	30			
30–300	27.5	0.073	0.2	30			
300–1500			f/1500	30			
1500–100,000			1.0	30			

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out}*G)/(4*P_i*R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

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

 P_d 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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5.2.2 Conclusion

Normal use condition for Distance between

20cm declared by applicant

antenna and body:

For Bluetooth BLE

Antenna Gain:		2.54	dBi			
Frequency	Antenna Gain	Peak Output	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
(MHz)	(Numeric)	Power (dBm)	Power (mw)	(S) (mw/cm ⁻)	(mW/cm ²)	Result
2402	1.794733627	2.02	1.59	0.00057	1	Complies
2440	1.794733627	2.9	1.95	0.00070	1	Complies
2480	1.794733627	2.88	1.94	0.00069	1	Complies

For 2.4 GHz Wi-Fi

2.54 dBi Antenna Gain: Antenna Limit of Power **Power Density** Frequency Peak Output Peak Output Test Density (S) Gain (MHz) Power (dBm) Power (mW) (S) (mW/cm²)Result (Numeric) (mW/cm²) 11B 2412 1.794733627 15.07 32.14 0.01147 1 Complies 2442 1.794733627 15.24 33.42 0.01193 1 Complies 1.794733627 36.06 0.01287 2462 15.57 1 Complies 11G 2412 1.794733627 17.15 51.88 0.01852 1 Complies 2442 1.794733627 17.31 53.83 0.01922 1 Complies 1.794733627 0.02055 2462 17.6 57.54 1 Complies 11N20 0.01831 2412 1.794733627 17.1 51.29 1 Complies 2442 1.794733627 17.33 54.08 0.01931 1 Complies 2462 1.794733627 17.62 57.81 0.02064 Complies 1 The Bluetooth and Wi-Fi can be transmitted together, the result is

0.02134 <1 0 02064 0 00070 /1+ /1=

So SAR report is not required.



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Refer to External and Internal Photos for GZCR2405000581HS

- End of the Report -



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