

Report No.: GZEM201001562502

Page: 1 of 10

FCC ID: 2AWVAKJ200F-A4

# RF EXPOSURE EVALUATION REPORT

Application No.: GZEM2010015625CR

**Applicant:** TCL Household Appliances (Zhongshan) Co., Ltd.

Address of Applicant: 1st-3rd Building, No.38 Fengshuo Road, Nantou Town, Zhongshan City,

Guangdong, China

Manufacturer: TCL Household Appliances (Zhongshan) Co., Ltd.

Address of Manufacturer: 1st-3rd Building, No.38 Fengshuo Road, Nantou Town, Zhongshan City,

Guangdong, China

Factory: Foshan Coolture Electrical Industrial Co., Ltd, Zhongshan City Branch

Address of Factory: B, 1st floor, No.30 Guangxing Road, Dayan Industrial Base, Huangpu Town,

Zhongshan, Guangdong

Equipment Under Test (EUT): FCC ID: 2AWVAKJ200F-A4

**EUT Name:** air purifier

Model No.: KJ200F-A4, HME020398N

Trade Mark: TCL, hOme Labs

**Standard(s):** 47 CFR Part 1.1307, Part 1.1310

**Date of Receipt:** 2020-10-13

**Date of Test:** 2020-10-17 to 2020-11-23

**Date of Issue:** 2020-11-24

Test Result: Pass\*

Kobe Jian EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: GZEM201001562502

Page: 2 of 10

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2020-11-24		Original		

Authorized for issue by:			
Tested By	Cily Knang	2020-10-17 to 2020-11-23	
	Lily_Kuang /Project Engineer	Date	
Checked By	Ridge Liu	2020-11-24	
	Rikcy_Liu /Reviewer	Date	



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Report No.: GZEM201001562502

Page: 3 of 10

# 2 Test Summary

Radio Spectrum Technical Requirement							
Item Standard		Method	Requirement	Result			
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	Pass			

### **¤** Declaration of EUT Family Grouping:

Model No.: KJ200F-A4, HME020398N

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name and brand.

Therefore only one model KJ200F-A4 was tested in this report.



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Report No.: GZEM201001562502

Page: 4 of 10

## 3 Contents

			Page
1	Cov	er Page	1
2	Test	Summary	3
3		tents	
4	Gen	eral Information	5
	4.1	Details of E.U.T	5
	4.2	Description of Support Units	5
	4.3	Test Location	5
	4.4	Test Facility	6
	4.5	Deviation from Standards	
	4.6	Abnormalities from Standard Conditions	7
5	Rad	io Spectrum Technical Requirement	8
	5.1	RF Exposure	8
	5.1.1	Test Requirement:	
		2 Conclusion	
6	Pho	tographs	10
	6.1	EUT Constructional Details	10



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Report No.: GZEM201001562502

Page: 5 of 10

## 4 General Information

### 4.1 Details of E.U.T.

Power Supply: AC 120V, 60Hz

Rated Power: 50W

Cable: AC mains (unshielded, 1.6 m)
Antenna Gain: 0 dBi declared by applicant

Antenna Type: Integrated antenna

Channel Spacing: 5MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

802.11n(HT40):7

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

802.11n(HT40): 2422MHz to 2452MHz

Hardware Version: KQ-KJ200F-D

Firmware Version: V1.3

S/N: SP-20200902
Test Software Version: UL MPTOOL 1V16

Power setting level 18 dBm can not be changed by user

## 4.2 Description of Support Units

Description	Description Manufacturer		Serial No.	
Notebook	IBM	T30	S/N78-3VMLX 06/01	

### 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

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No tests were sub-contracted.



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Page: 6 of 10

## 4.4 Test Facility

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

#### ● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

### 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.

#### ● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

### ● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

#### ◆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, Jul 13, 2017.

#### ● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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Page: 7 of 10

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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Report No.: GZEM201001562502

Page: 8 of 10

#### Radio Spectrum Technical Requirement 5

### **RF Exposure**

#### 5.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

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)

	(A/m)	(mW/cm²)	(minutes)				
(A) Limits for Occupational/Controlled Exposure							
0.3-3.0 614 1.63 *100							
1842/f	4.89/f	*900/f²	6				
61.4	0.163	1.0	6				
		f/300	6				
		5	6				
(B) Limits for General Population/Uncontrolled Exposure							
614	1.63	*100	30				
824/f	2.19/f	*180/f <sup>2</sup>	30				
27.5	0.073	0.2	30				
		f/1500	30				
		1.0	30				
	1842/f 61.4 Limits for Gener 614 824/f	1842/f 4.89/f 61.4 0.163  Limits for General Population/Uncon 614 1.63 824/f 2.19/f	1842/f     4.89/f     *900/f²       61.4     0.163     1.0       f/300       5       Limits for General Population/Uncontrolled Exposure       614     1.63     *100       824/f     2.19/f     *180/f²       27.5     0.073     0.2       f/1500				

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$ 

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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Plane-wave equivalent power density



Report No.: GZEM201001562502

Page: 9 of 10

#### 5.1.2 Conclusion

Normal use condition for Distance between

20cm declared by applicant

antenna and body:

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result		
11B								
2412	1.000	15.27	33.651	0.00669	1	Complies		
2442	1.000	14.25	26.607	0.00529	1	Complies		
2462	1.000	13.27	21.232	0.00422	1	Complies		
11G								
2412	1.000	10.08	10.186	0.00203	1	Complies		
2442	1.000	9.13	8.185	0.00163	1	Complies		
2462	1.000	7.85	6.095	0.00121	1	Complies		
11N20								
2412	1.000	9.22	8.356	0.00166	1	Complies		
2442	1.000	8.25	6.683	0.00133	1	Complies		
2462	1.000	7.24	5.297	0.00105	1	Complies		
11N40								
2422	1.000	9.13	8.185	0.00163	1	Complies		
2442	1.000	8.26	6.699	0.00133	1	Complies		
2452	1.000	7.77	5.984	0.00119	1	Complies		

So SAR report is not required.



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Report No.: GZEM201001562502

Page: 10 of 10

# 6 Photographs

### 6.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM2010015625CR

--End of Report--



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