

CTC Laboratories, Inc.

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TEST REPORT

Report No.....: CTC20201680E05

Applicant.....: Lumi United Technology Co., Ltd

Taoyuan Residential District, Nanshan District, Shenzhen, China

Manufacturer..... Lumi United Technology Co., Ltd

Taoyuan Residential District, Nanshan District, Shenzhen, China

Product Name: TVOC Air Quality Monitor

Trade Mark.....: Aqara

Model/Type reference: AAQS-S01

Listed Model(s): N/A

Standard.....: EN 62479:2010

EN 50663:2017

Date of receipt of test sample...: Nov. 10, 2020

Date of testing...... Nov. 10, 2020 to Nov. 16, 2020

Date of issue...... Mar. 9, 2021

Result..... PASS

Compiled by:

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lucy

Supervised by:

(Printed name+signature) Miller Ma

Approved by:

(Printed name+signature) Walter Chen

Testing Laboratory Name.....: CTC Laboratories, Inc.

Address 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,

Shenzhen, Guangdong, China

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3.1.

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

<u>EN 62479:2010</u>-Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

<u>EN 50663:2017</u>-Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz – 300 GHz)

1.2. Report version

Revised No.	Date of issue	Description
01	Mar. 9, 2021	Original

1.3. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation.Crite ria for Testing and Calibration Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. 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 inour files. Registration 951311, Aug 26, 2017.

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CTC Laboratories, Inc.



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Lumi United Technology Co., Ltd
Address:	8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen, China
Manufacturer:	Lumi United Technology Co., Ltd
Address:	8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.2. General Description of EUT

Product Name:	TVOC Air Quality Monitor		
Model/Type reference:	AAQS-S01		
Trademark:	Aqara		
Listed models:	N/A		
Power supply:	DC 3V		
Hardware version:	R0		
Software version:	22		
Zigbee			
Modulation:	O-QPSK		
Operation frequency:	2405~2480MHz		
Channel number:	16		
Channel separation:	5 MHz		
Antenna type:	FPC Antenna		



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3. TEST ITEM AND RESULTS

3.1. RF Exposure

Limit

20mW (According to the table A.1)

Table A.1 – Example values of SAR-based $P_{\rm max}$ for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005

Guideline / Standard	SAR limit, SAR _{max}	Averaging mass, m	$P_{\sf max}$	Exposure tier ^a	Region of body ^a
	W/kg	g	mW		
	2	10	20	General public	Head and trunk
ICNIRP [1]	4	10	40	General public	Limbs
ICNIKP [1]	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
IEEE Std C95.1-1999 [2]	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
000.1 1000 [2]	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
	2	10	20	Action level	Body except extremities and pinnae
IEEE Std C95.1-2005 [3]	4	10	40	Action level	Extremities and pinnae
222 2200 [0]	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae

^a Consult the appropriate standard for more information and definitions of terms.

TEST RESULTS

Test channel	EIRP (dBm)	Output power (mW)	Limit (mW)	Results
LCH	10.65	11.61		
MCH	10.38	10.91	20.00	Pass
HCH	10.19	10.45		

Note

For a more detailed features description, please refer to the RF Test Report.

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EN 中国国家认证认可监督管理委员会