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RF Exposure Evaluation Report

Application No.:	SHEM2011009977CR
FCC ID:	2AYCFWFU236
Applicant:	Yueqing City Full Imp and Exp Co.,Ltd
Address of Applicant:	Chezhan Road LVzhuang building Room 1302 Liushi Town,Yueqing City,Wenzhou,China
Manufacturer:	YUEQING COMBO ELECTRLC, CO., LTD
Address of Manufacturer:	FLOOR 5 NO 7 YONGXING FIRST RD CHENGDONG INDUSTRIAL ZONE YUEQING CITY ZHEJIANG PROVIENCE 325600 CHINA
Factory:	YUEQING COMBO ELECTRLC, CO., LTD
Address of Factory:	FLOOR 5 NO 7 YONGXING FIRST RD CHENGDONG INDUSTRIAL ZONE YUEQING CITY ZHEJIANG PROVIENCE 325600 CHINA

Equipment Under Test (EUT):

EUT Name:	Smart Wi-Fi USB Wall Outlet
Model No.:	WF15236C
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2020-11-26
Date of Test:	2020-12-03 to 2020-12-30
Date of Issue:	2021-01-05
Test Result:	**Pass***

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

Parlam Zhan

Parlam Zhan
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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Revision Record			
Version	**Description**	**Date**	**Remark**
00	Original	2021-01-05	/

Authorized for issue by:				
		Bill Wu		
		Bill Wu / Project Engineer		
		Parlam Zhan		
		Parlam Zhan /Reviewer		

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3 General Information

3.1 General Description of E.U.T.

Power supply:	AC 100-125V 50/60Hz
Antenna Gain:	2.5dBi(Provided by the manufacturer)
Antenna Type:	PCB 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
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

3.3 Test Facility

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

- **CNAS (No. CNAS L0599)**
  CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.
- **NVLAP (LAB CODE: 201034-0)**
  SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
- **FCC (Designation Number: CN5033)**
  SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number: 479755.
- **ISED (CAB Identifier: CN0020)**
  SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. ISED#: 8617A.
- **VCCI (Member No.: 3061)**
  The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to§1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm^2)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM201100997701

Test Mode	Test Channel	Ant	Power [dBm]	Power [mW]
11B	2412	Ant1	15.66	36.81
11B	2442	Ant1	16.27	42.36
11B	2472	Ant1	16.47	**44.36**
11G	2412	Ant1	14.51	28.25
11G	2442	Ant1	15.08	32.21
11G	2472	Ant1	15.24	33.42
11N20SISO	2412	Ant1	14.47	27.99
11N20SISO	2442	Ant1	15.01	31.70
11N20SISO	2472	Ant1	15.19	33.04

5.2 MPE Calculation

For FCC:

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

1) P (mW)
2) R = distance to the center of radiation of antenna (in meter) = 20cm
3) MPE limit = 1mW/cm²

The max. antenna gain is 2.5 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
44.36	1.778	20	0.01569	1	Pass

So the device is exclusion from SAR test.

--End of the Report--