FCC 47 CFR PART 15 SUBPART C 15.247

TEST REPORT

FOR

MINI SMART SOCKET

Model : WF-3;WF-RIA-US

Issued to

ORICO TechnoLogies CO., Ltd.
903-904.14A, Zhonghaixin. Innovation. Industrial, Park, 6th. Gan, Lee.Road, Buji, Longgang. District Shenzhen, China
Issued by
WH Technology Corp.

Open Site		**No.120, Ln. 5, Hudong St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)**
EMC Test Site	**Xizhi Office and Lab**	**7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)**
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1. GENERAL INFORMATION

Applicant/ Manufacturer	:	**ORICO TechnoLogies CO., Ltd.**
Address	:	**903-904.14A, Zhonghaixin. Innovation. Industrial, Park, 6th. Gan, Lee.Road, Buji, Longgang. District Shenzhen, China**
Factory	:	**Dongguan XYQC Electronic Technologies Co., Ltd.**
Address	:	**4th Floor, Building F, ORICO Intemet & Creativity Industrial Park, No.24 Tangjiao Rd, Changping Town, Dongguan**
EUT	:	**Mini Smart Socket**
Model Name	:	**WF-3; WF-RIA-US**
Trade Name	:	**N/A**
Model Differences	:	**Only model name is different, the other exactly the same. Model name difference is only for different customer needs.**

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating

FCC part 15 Subpart C

Receipt Date : 01/05/2018 Final Test Date :01/16/2018

Tested By: **Reviewed by:**

15 January 2018
(Date)

Bell Wei/ Engineer

16 January 2018
(Date)

Mike Lee / Manager
Designation Number: TW2954

EUT Specification

EUT:	Mini Smart Socket
M/N:	WF-3
Frequency band: (Operating)	☒ WLAN:2.142G~2.462GHz ☐ WLAN:5.18G~5.32GHz/5.50GHz~5.70GHz ☐ WLAN:5.745G~5.825GHz ☐ Others(Bluetooth:2.402GHz~2.480GHz)
Device category:	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others ___
Antenna diversity:	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. Output Power:	18.73dBm
Antenna Type:	PCB Antenna
Antenna gain:	1dBi
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm2)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-1	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where
Pd= Power density in mW/cm2
Pout=output power to antenna in Mw
G= gain of antenna in linear scale
Pi=3.1416
R= distance between observation point and center of the radiator in cm
Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is Reached.

Measurement Result

Channel	Channel Frequency (MHz)	Max Output power (dBm)	Tolerance	Max Tune-UP power (mW)	Power density at 20cm (mW/cm2)	Power density Limits (mW/cm2)
Test Mode: 802.11b						
Low	2412	18.52	±0.5	71.12	0.141487	1
Middle	2437	18.73	±0.5	74.64	0.148490	1
High	2462	18.61	±0.5	72.61	0.144451	1
Test Mode: 802.11g						
Low	2412	17.49	±0.5	56.10	0.111606	1
Middle	2437	17.23	±0.5	52.84	0.105120	1
High	2462	17.65	±0.5	58.21	0.115803	1
Test M ode: 802.11n(HT20)						
Low	2412	16.64	±0.5	46.13	0.091771	1
Middle	2437	16.22	±0.5	41.88	0.083316	1
High	2462	16.58	±0.5	45.50	0.090518	1

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