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Report No.: 1802RSU004-U3 Report Version: V01 Issue Date: 04-04-2018

RF Exposure Evaluation Declaration

FCC ID: T2C-WF50

IC: 10741A-WF50

APPLICANT: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,

LTD

Application Type: Certification

Product: Wi-Fi USB Dongle

Model No.: WF50

Brand Name: YEALINK

FCC Classification: Digital Transmission System (DTS)

Unlicensed National Information Infrastructure (UNII)

Test Procedure(s): KDB 447498 D01

Test Date: January 13 ~ March 11, 2018

Reviewed By : Survey Sur

(Sunny Sun)

Approved By : Marlinchen

(Marlin Chen)





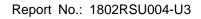
The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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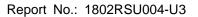




Revision History

Report No.	Version	Description	Issue Date	Note
1802RSU004-U3	Rev. 01	Initial Report	04-04-2018	Valid

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1. PRODUCT INFORMATION

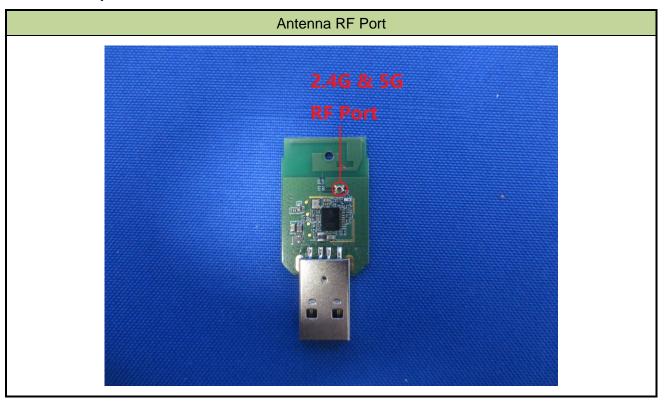
1.1. Equipment Description

Product Name	Wi-Fi USB Dongle	
Model No.	WF50	
Wi-Fi Specification	802.11a/b/g/n/ac	

1.2. Antenna Description

Antenna Type	Frequency Band (MHz)	TX Paths	Max Peak Gain (dBi)
Death to	2400 ~ 2483.5	1	3
Built-in	5150 ~ 5850	1	3

1.3. Description of Antenna RF Port



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2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: 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 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)	
(A) Limits for Occupational/ Control Exposures					
300-1500			f/300	6	
1500-100,000			5	6	
(B) Limits for General Population/ Uncontrolled Exposures					
300-1500			f/1500	6	
1500-100,000			1	30	

f= Frequency in MHz

Calculation Formula: $Pd = (Pout*G)/(4*pi*r^2)$

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 is the limit of MPE, 1mW/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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2.2. Test Result of RF Exposure Evaluation

Product	Wi-Fi USB Dongle	
Test Item	RF Exposure Evaluation	

Antenna Gain: Refer to Clause 1.2 of antenna description.

Test Mode	Frequency Band	Maximum Total	Power Density at	Limit
	(MHz)	Average Output	R = 20 cm	(mW/cm ²)
		Power	(mW/cm ²)	
		(dBm)		
802.11b/g/n	2412 ~ 2462	19.38	0.0344	1
802.11a/n/ac	5180 ~ 5240	17.10	0.0204	1
802.11a/n/ac	5745 ~ 5825	17.37	0.0217	1

CONCLUSION:

The WLAN 2.4GHz and WLAN 5GHz cannot transmit simultaneously. Therefore, the Max Power Density at R (20 cm) = 0.0344mW/cm² < 1mW/cm². So the EUT complies with the requirement.

_____ The End

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