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Report Template Version: V03

Report Template Revision Date: Mar.1st, 2017

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RF Exposure Evaluation Report

Report No.: CQASZ20190400249E-02

Applicant: Shenzhen PENGLIXIN Technology Co., Limited

Address of Applicant: Rm. 532-540, C Building, Huahui Road No.73, Dalang, Longhua District,

Shenzhen, China

Manufacturer: Shenzhen PENGLIXIN Technology Co., Limited

Address of Manufacturer: Rm. 532-540, C Building, Huahui Road No.73, Dalang, Longhua District,

Shenzhen, China

Equipment Under Test (EUT):

Product: WIFI Otoscope

Model No.: WF-500 Brand Name: N/A

FCC ID: 2AKMMPLXWF-500
Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2019-04-16 to 2019-05-09

Date of Issue: 2019-05-09

Test Result : PASS*

Tested By:

(Daisy Qin)

Reviewed By: _____ Out on / La

(Aaron Ma)

Approved By:



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

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



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190400249E-02	Rev.01	Initial report	2019-05-09





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3 General Information

3.1 Client Information

Applicant:	Shenzhen PENGLIXIN Technology Co., Limited
Address of Applicant:	Rm. 532-540, C Building, Huahui Road No.73, Dalang, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen PENGLIXIN Technology Co., Limited
Address of Manufacturer:	Rm. 532-540, C Building, Huahui Road No.73, Dalang, Longhua District, Shenzhen, China

3.2 General Description of EUT

Product Name:	WIFI Otoscope
Model No.:	WF-500
Trade Mark:	N/A
Hardware Version:	V1.3
Software Version:	V1.2
Sample Type:	
Power Supply:	DC3.7V, 420mAh; Charge by USB

3.3 General Description of WIFI

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
	IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
	IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE for 802.11n(HT20/40): OFDM (64QAM, 16QAM,QPSK,BPSK)
Transfer Rate:	IEEE for 802.11b:
	1Mbps/2Mbps/5.5Mbps/11Mbps
	IEEE for 802.11g :
	6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps
	IEEE for 802.11n(HT20):
	6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps
	IEEE for 802.11n(HT40):
	13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Test Software of EUT:	SecureCRT(manufacturer declare)
Antenna Type:	internal antenna
Antenna Gain:	0dBi



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
☐ f(GHz) is the RF channel transmit frequency in GHz ☐ Power and distance are rounded to the nearest mW and mm before calculation ¹⁷ ☐ The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation
distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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4.1.3 EUT RF Exposure

1)For WIFI:

Measurement Data

Measurement Data					
	802.11	b mode			
Test channel	Average Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2412MHz)	7.38	7.5±1	8.5	7.079	
Middle(2437MHz)	7.89	7.5±1	8.5	7.079	
Highest(2462MHz)	8.21	7.5±1	8.5	7.079	
	802.11	g mode			
Test channel	Average Output Power	Tune up tolerance	Maximum tu	ne-up Power	
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2412MHz)	6.98	7.0±1	8	6.310	
Middle(2437MHz)	7.78	7.0±1	8	6.310	
Highest(2462MHz)	7.63	7.0±1	8	6.310	
	802.11n(H	T20)mode			
Test channel	Average Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2412MHz)	6.86	7.0±1	8	6.310	
Middle(2437MHz)	z) 7.57 7.0±1		8	6.310	
Highest(2462MHz)	7.42	7.0±1	8	6.310	
	802.11n(H				
Test channel	Average Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2422MHz)	6.77	7.0±1	8	6.310	
Middle(2437MHz)	7.47	7.0±1	8	6.310	
Highest(2452MHz)	7.34	7.0±1	8	6.310	



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Channel	Average Tune up tolerance		Maximum tune- up Power		Calculated	Exclusion
	Output Power (dBm)	(dBm)	(dBm)	(mW)	value	threshold
Lowest (2402MHz)	7.38	7.5±1	8.5	7.079	2.20	
Middle (2440MHz)	7.89	7.5±1	8.5	7.079	2.21	3.0
Highest (2480MHz)	8.21	7.5±1	8.5	7.079	2.22	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190400249E-01