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RF Exposure Evaluation Report

Report No. : CQASZ20190900979E-02
Applicant: Wicked Audio, Inc
Address of Applicant: 875 WEST 325 NORTH, LINDON, UT 84042, USA
Equipment Under Test (EUT):
EUT Name: Fight wireless
All Model No.: WI-BT3250, WI-BT3251, WI-BT3252, WI-BT3253, WI-BT3254, WI-BT3255,
17LY71 +13G11
Test Model No.: WI-BT3250
Brand Name: N/A
FCC ID: 2AFM7WI-BT325X
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2019-09-27
Date of Test: 2019-09-27 to 2019-10-09
Date of Issue: 2019-10-09
Test Result : **PASS***

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

Tested By:

Tom Chen
(Tom Chen)

Reviewed By:

Sheek Luo
(Sheek Luo)

Approved By:

Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190900979E-02	Rev.01	Initial report	2019-10-09

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3 General Information

3.1 Client Information

Applicant:	Wicked Audio, Inc
Address of Applicant:	875 WEST 325 NORTH, LINDON, UT 84042, USA
Manufacturer:	Shenzhen Jia Hua Li Dian Zi You Xian Gong Si
Address of Manufacturer:	NO 101,201, BUILDING E, NEW INDUSTRIAL ZONE, SHENZHU ROAD, LIUYUE SHENKENG VILLAGE, HENGANG, LONGGANG DISTRICT, SHENZHEN CHINA.

3.2 General Description of EUT

Product Name:	Fight wireless
All Model No.:	WI-BT3250, WI-BT3251, WI-BT3252, WI-BT3253, WI-BT3254, WI-BT3255, 17LY71 +13G11
Test Model No.:	WI-BT3250
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	BK32xx RF Test - V1.5_en (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery: DC3.7V, 100mAh, Charge by DC5.0V

Note:

All Model No.: WI-BT3250, WI-BT3251, WI-BT3252, WI-BT3253, WI-BT3254, WI-BT3255, 17LY71 +13G11

Only the model WI-BT3250 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance, pack and model name.

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

4.1.3 EUT RF Exposure

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.540	-2±1	-1	0.794
Middle(2441MHz)	-2.380	-2±1	-1	0.794
Highest(2480MHz)	-2.290	-2±1	-1	0.794
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.590	0±1	1	1.259
Middle(2441MHz)	-0.240	0±1	1	1.259
Highest(2480MHz)	-0.140	0±1	1	1.259
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.970	0.5±1	1.5	1.413
Middle(2441MHz)	0.070	0.5±1	1.5	1.413
Highest(2480MHz)	0.300	0.5±1	1.5	1.413

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	0.970	0.5±1	1.5	1.413	0.44	3.0
Middle (2441MHz)	0.070	0.5±1	1.5	1.413	0.44	
Highest (2480MHz)	0.300	0.5±1	1.5	1.413	0.44	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190900979E-01