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RF Exposure Evaluation Report

Report No.: CQASZ20180500053E-02

Applicant: Shenzhen ITOPNOO Technology Co., Ltd.

Address of Applicant: Room No.06-08, Floor 5, G Hall(Treasures Hall), Culture Creative Park, Futian

District, Shenzhen, China

Manufacturer: Shenzhen ITOPNOO Technology Co., Ltd.

Address of Room No.06-08, Floor 5, G Hall(Treasures Hall), Culture Creative Park, Futian

Manufacturer: District, Shenzhen, China

Product:

Model No.: 17S, i7S, i7S, i7S, it-HS01, it-HS02, it-HS03, it-HS04, it-HS05, it-HS06, it-HS07,

it-HS08

Test Model No.: 17S
Brand Name: itopnoo
Product: Headsets
FCC ID: 2APQLIHS-I7S

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1091

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-05-08 to 2018-05-12

Date of Issue: 2018-05-12

Test Result : PASS*

Tested By:

(Aaron Wa)

Reviewed By: Went Mou

Owen Zhou)

Approved By:

TESTING TEATING TEATI

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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2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180500053E-02	Rev.01	Initial report	2018-05-12





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4 General Information

4.1 Client Information

Applicant:	Shenzhen ITOPNOO Technology Co., Ltd.	
Address of Applicant:	Room No.06-08, Floor 5, G Hall(Treasures Hall), Culture Creative Park, Futian District, Shenzhen, China	
Manufacturer:	Shenzhen ITOPNOO Technology Co., Ltd.	
Address of Manufacturer:	Room No.06-08, Floor 5, G Hall(Treasures Hall), Culture Creative Park, Futian District, Shenzhen, China	

4.2 General Description of EUT

Product Name:	Headsets
Model No.:	I7S, i7S, i7S TWS, it-HS01, it-HS02, it-HS03, it-HS04, it-HS05, it-HS06, it-HS07, it-HS08
Trade Mark:	itopnoo
Hardware Version:	V1.2
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	portable production
Test Software of EUT:	FCCAssist V1.6 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery:DC3.7V, Charge by USB

Note: Only the model I7S 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 and model name.



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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 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 [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 \leq 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

5.1.3 EUT RF Exposure



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For BT:

Measurement Data

medodrement bata		
GFSK mode		
Test channel	Peak Output Power (dBm)	
Lowest	3.820	
Middle	4.730	
Highest	4.730	
π/4DQPSK mode		
Test channel	Peak Output Power (dBm)	
Lowest	1.270	
Middle	2.160	
Highest	2.170	

The Max Conducted Peak Output Power is 4.73dBm in highest channel(2.480GHz);

The best case gain of the antenna is 0dBi.

EIRP= 4.73dBm + 0dBi =-4.73dBm

4.73dBm logarithmic terms convert to numeric result is nearly 2.97mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$]

General RF Exposure = $(2.97\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.935 \text{ }\bigcirc$

SAR requirement:

S= 3.0 ②;

(1) < (2).

So the SAR report is not required.

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

CQASZ20180500053E-01