Shenzhen Global Test Service Co.,Ltd. 1F. Building No. 13A. Zhonghaixin Science and Tech

1F, Building No. 13A, Zhonghaixin Science and Technology City, No.12,6 Road, Ganli Industrial Park, Buji Street, Longgang District, Shenzhen, Guangdong

RF Exposure evaluation

 Report Reference No......
 GTSR17040110-02

 FCC ID......
 2ALNA-ICBTH20

Compiled by

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Date of issue...... Apr. 27, 2017

Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd.

Shenzhen, Guangdong

Applicant's name...... Shenzhen Thousandshores Technology Co., Ltd.

North Alley, Chuangye 2nd Road, Bao'an District 28th, Shenzhen

Test specification:

TRF Originator...... Shenzhen Global Test Service Co.,Ltd.

Master TRF...... Dated 2014-12

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Test item description: Bluetooth Headphones

Trade MarkiClever

Manufacturer SHENZHEN SHI KISB ELECTRONIC CO., LTD

Model/Type reference.....: IC-BTH20

Listed Models /

Exposure category...... General population/uncontrolled environment

EUT Type Production Unit
Hardware Version M27-S_V1.1

Software Version V1.0

Rating DC 3.7V

Result..... PASS

Report No.: GTSR17040110-02 Page 2 of 7

TEST REPORT

Test Report No. :	GTSR17040110-02	Apr. 27, 2017
rest Report No	G13K17040110-02	Date of issue

Equipment under Test : Bluetooth Headphones

Model /Type : IC-BTH20

Listed Models : /

Applicant : Shenzhen Thousandshores Technology Co., Ltd.

Address : 5th Floor, Chuangxin Building, Seven-star Creative Square, No. 2

North Alley, Chuangye 2nd Road, Bao'an District 28th, Shenzhen

Manufacturer : SHENZHEN SHI KISB ELECTRONIC CO., LTD

Address : 3-5/F, A Building Shanghe Industrial Park Nanchang Road, Xixiang

Town Bao' an District Shenzhen, Guangdong, P.R. China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Report No.: GTSR17040110-02 Page 3 of 7

Contents

Report No.: GTSR17040110-02 Page 4 of 7

1. SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- \bigcirc supplied by the lab

0	/	M/N:	/
		Manufacturer:	/

1.2. Product Description

Name of EUT	Bluetooth Headphones	
Trade Mark	iClever	
Model Number	IC-BTH20	
List Model	1	
FCC ID	2ALNA-ICBTH20	
Antenna Type	Internal Antenna	
Bluetooth FCC Operation frequency	2402MHz-2480MHz	
Bluetooth Modulation	GFSK	
Bluetooth	Supported BT4.0	
Antenna gain	-0.72dBi	

Report No.: GTSR17040110-02 Page 5 of 7

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

1F, Building No. 13A, Zhonghaixin Science and Technology City, No.12,6 Road, Ganli Industrial Park, Buji Street, Longgang District, Shenzhen, Guangdong

2.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 964637

Shenzhen Global Test Service Co.,Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 964637, Jul 24, 2015.

CNAS-Lab Code: L8169

Shenzhen Global Test Service Co.,Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories. Date of Registration: Dec. 11, 2015. Valid time is until Dec. 10, 2018.

2.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C		
Humidity:	30-60 %		
Atmospheric pressure:	950-1050mbar		

2.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

easurement Uncertainty	Notes
0.57 dB	(1)
,	•

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Report No.: GTSR17040110-02 Page 6 of 7

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure requirement

KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

3.2. Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 "

[(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 \le 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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

3.3. Simultaneous transmission MPE Considerations

According to KDB447498 :For mobile exposure host platform to qualify for simultaneous transmission MPE test exclusion, all transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

 Σ of MPE ratios ≤ 1.0

The EUT is Not Applicable.

Report No.: GTSR17040110-02 Page 7 of 7

3.4. Conducted Power Results

Mode Channel		Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
	(IVIE		Data rate	PK	Average
	0	2402	1Mbps	-3.99	-4.35
BLE	19	2440	1Mbps	-3.94	-4.28
	39	2480	1Mbps	-4.33	-4.83

Manufacturing tolerance

GFSK (Average)				
Frequency	2402	2440	2480	
Target (dBm)	-4	-4	-4	
Tolerance ±(dB)	1.0	1.0	1.0	

4. Evaluation Result

Band/Mode	f (GHz)	Antenna Distance (mm)	(including	ut power g tune-up ance)	SAR Test Exclusion Threshold	SAR Test Exclusion
		(111111)	dBm	mW	Tillesiloid	
BLE	2.480	5	-3	0.5012	0.16<3.0	Yes

5. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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