Shenzhen Global Test Service Co.,Ltd.

GTS

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
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 Report Reference No.......
 GTSR17070091-02

 FCC ID.......
 2AM47-SDH-A6

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Date of issue...... May. 12, 2017

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

Shenzhen, Guangdong

Applicant's name...... Shenzhen SANDHO Eletronic CO.,LTD

Village, Xixiang Town , Baoan District, Shenzhen City, China.

Test specification:

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

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Test item description Bluetooth speaker

Trade Mark: /

Manufacturer Shenzhen SANDHO Eletronic CO.,LTD

Model/Type reference...... SDH-A6

Listed Models /

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

EUT Type Production Unit

Hardware Version HB-SDH-A6-6611EX V1.3

Software Version: V1.3

Rating DC 3.7V

Result..... PASS

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TEST REPORT

Test Report No. :	: GTSR17070091-02	May. 12, 2017
l rest Neport No	010111010031-02	Date of issue

Equipment under Test : Bluetooth speaker

Model /Type : SDH-A6

Listed Models : /

Applicant : Shenzhen SANDHO Eletronic CO.,LTD

Address : 3rd Floor 7 Building, TianFuAn Industrial Zone, LezhuJiao

Village, Xixiang Town , Baoan District, Shenzhen City, China.

Manufacturer : Shenzhen SANDHO Eletronic CO.,LTD

Address : 3rd Floor 7 Building, TianFuAn Industrial Zone, Lezhu Jiao

Village, Xixiang Town , Baoan District, Shenzhen City, China.

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

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

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1. SUMMARY

1.1. EUT configuration

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

- supplied by the manufacturer
- - supplied by the lab

0	1	M/N:	1
		Manufacturer:	1

1.2. Product Description

Name of EUT	Bluetooth speaker
Trade Mark	1
Model Number	SDH-A6
List Model	1
FCC ID	2AM47-SDH-A6
Antenna Type	Internal Antenna
Bluetooth FCC Operation frequency	2402MHz-2480MHz
Bluetooth Modulation	GFSK
Bluetooth	Supported BT4.2
Antenna gain	-0.83dBi
Remark:The products are identical in inte	rior structure, electrical circuits and components, just model names

Remark: The products are identical in interior structure, electrical circuits and components, just model names and color are different.

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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 as sessed and proved to be in compliance with CNAS-CL01 Accreditation C riteria for T esting and C alibration Laboratories (identical to ISO/IEC 17 025: 2005 General Requirements) for the Competence of Testing and C alibration 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 R adio s pectrum Mat ters (ERM);Uncertainties in the measurement of mobile r adio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile r adio equipment c haracteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, c omponent and process v ariability of d evices s imilar to that t ested may result in a dditional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	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.

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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 [\checkmark 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
- 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. Conducted Power Results

Mode Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)		
		(IVITIZ)	Dala Tale	PK	Average
	0	2402	1Mbps	-3.59	-4.24
BLE	19	2440	1Mbps	-3.71	-4.52
	39	2480	1Mbps	-3.18	-3.82

Manufacturing tolerance

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

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4. Evaluation Result

Band/Mode	f (GHz)	Antenna Distance (mm)	RF output power (including tune-up tolerance)		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.

End o	of Repor	t
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