

TEST REPORT

Report Number	90560-25-72-25-PP002
Date of issue	2025-06-11
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Factory's name	Huizhou Huating Technology Co., Ltd
Address	No. 2686 Longqiao Avenue, Longxi Street, Boluo County, Huizhou City
Standard(s)	FCC 47 CFR Part 15, Subpart C
Test item description	WIRELESS SPEAKER
Trade Mark	N/A
Model/Type reference	HS03
FCC ID	2A7KW-HS03
Date of receipt of test item.....	2025-05-28
Date (s) of performance of test:	2025-05-29 to 2025-06-10
Summary of Test Results	Pass

The Summary of Test Results based on a technical opinion belongs to the standard(s).

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Modified History

Report No.	Revision Date	Summary
90560-25-72-25-PP002	2025-06-11	Original Report

1. EUT Specification

Characteristics	Description
Product:	WIRELESS SPEAKER
Model Number:	HS03
Sample:	1#
Device Type:	Bluetooth V5.3
Data Rate:	DSS: 1Mbps for GFSK modulation 2Mbps for pi/4-DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	DSS: GFSK, pi/4-DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	DSS: 79 channels
Transmit Power Max:	-6.45 dBm
Antenna Gain:	2.5 dBi
Power supply:	Input: DC 5V 2A Battery Capacity: 7.4V 2400mAh
Evaluation applied:	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §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.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24} \text{ where}$$

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 ≤ 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.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

One antenna is available for the EUT. The minimum separation distance is 5mm.

3. Measurement Result

Transmit Frequency(MHz)	Mode	Measured Power(dBm)	Tune upPower(dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	-10.67	-11±1	-10	0.030997	3
2441	GFSK	-8.77	-9±1	-8	0.049524	3
2480	GFSK	-14.44	-15±1	-14	0.012539	3
2402	pi/4-DQPSK	-6.63	-7±1	-6	0.077860	3
2441	pi/4-DQPSK	-8.58	-9±1	-8	0.049524	3
2480	pi/4-DQPSK	-14.48	-15±1	-14	0.012539	3
2402	8DPSK	-6.45	-7±1	-6	0.077860	3
2441	8DPSK	-8.54	-9±1	-8	0.049524	3
2480	8DPSK	-14.11	-15±1	-14	0.012539	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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