



经续检验

SLG-CPC Testlaboratory

TEST REPORT

Report Number. :	90561-25-72-25-PP002	
Date of issue..... :	2025-06-11	
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Manufacturer's name :	Huizhou Huating Technology Co., Ltd	
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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) :	§15.247(i), §2.1093	
Test item description :	WIRELESS SPEAKER	
Trade Mark :	N/A	
Model/Type reference :	HS12, FULMINARE HS12, Lenovo Services D02, GX-B06	
FCC ID :	2A7KW-HS12	
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
90561-25-72-25-PP002	2025-06-11	Original Report

1. EUT Specification

Characteristics	Description
Product:	WIRELESS SPEAKER
Model Number:	HS12, FULMINARE HS12, Lenovo Services D02, GX-B06 (All models are identical except for the model name and color; All tests were performed on model HS12)
Sample:	1#
Device Type:	Bluetooth V6.0
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:	DSS: 2.31 dBm
Antenna Gain:	-0.58 dBi
Power supply:	Input: DC 5V 1A Battery Capacity: 3.7V 2000mAh
Evaluation applied:	☐ MPE Evaluation ☒ 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:

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

- $f_{\text{(GHz)}}$ 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	1.24	1±1	2	0.491266	3
2441	GFSK	1.04	1±1	2	0.495238	3
2480	GFSK	0.59	1±1	2	0.499178	3
2402	pi/4-DQPSK	1.97	2±1	3	0.618467	3
2441	pi/4-DQPSK	1.80	2±1	3	0.623468	3
2480	pi/4-DQPSK	1.42	1±1	2	0.499178	3
2402	8DPSK	2.31	2±1	3	0.618467	3
2441	8DPSK	2.21	2±1	3	0.623468	3
2480	8DPSK	1.75	2±1	3	0.628428	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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