

TEST REPORT

Product Name : PORTABLE BLUETOOTH SPEAKER
Model Number : BS12306, M196
FCC ID : 2BGTK-BS12306

Prepared for : Bugani Acoustics Co., Limited
Address : Room 02, 21st Floor, Hip Kwan Commercial Building, 38 Pitt Street, Yau Ma Tei, Kowloon, Hong Kong, China

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1. TEST RESULT CERTIFICATION

Applicant : Bugani Acoustics Co., Limited
Address : Room 02, 21st Floor, Hip Kwan Commercial Building, 38 Pitt Street, Yau Ma Tei, Kowloon, Hong Kong, China
Manufacturer : Shenzhen Jonter Digital Co., Ltd
Address : 3/F, Building4, Jinfo Industrial Park, Hezhou Village, Hangcheng Town, Bao' an District, Shenzhen, Guangdong, China
Factory : Dongguan Jonter Digital Co., Ltd.
Address : Building 1, No. 5, Daguzi East Street, Tangjiao Village, Chashan Town, Dongguan, China
EUT : PORTABLE BLUETOOTH SPEAKER
Model Name : BS12306, M196
Trademark : BUGANi

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

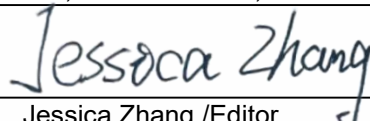
The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test :

Oct 08, 2024 to Oct 28, 2024

Prepared by :


Jessica Zhang /Editor

Reviewer :


Warren Deng /Supervisor

Approve & Authorized Signer :


Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2408300263E00602R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	PORTABLE BLUETOOTH SPEAKER
Model Number:	BS12306, M196 All products are identical except the model number. Here we selected BS12306 for all the test.
Sample:	1#
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	79 channels
Transmit Power Max:	-11.10 dBm(0.000078 W)
Antenna Gain:	3.12 dBi
Rating:	DC 5V from USB DC 3.7V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

SAR Evaluation

According to 447498 D01 V06, 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:

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

$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ 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.

4. Measurement Result

Antenna gain: 3.12 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P(dB m)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	-11.82	-8.70	-9±1	-8	0.0491266	3
2441	GFSK	-12.41	-9.29	-10±1	-9	0.0393381	3
2480	GFSK	-11.64	-8.52	-9±1	-8	0.0499178	3
2402	Π/4-DQPSK	-11.55	-8.43	-9±1	-8	0.0491266	3
2441	Π/4-DQPSK	-12.03	-8.91	-9±1	-8	0.0495238	3
2480	Π/4-DQPSK	-11.10	-7.98	-8±1	-7	0.0628428	3
2402	8DPSK	-11.23	-8.11	-9±1	-8	0.0491266	3
2441	8DPSK	-11.71	-8.59	-9±1	-8	0.0495238	3
2480	8DPSK	-11.18	-8.06	-9±1	-8	0.0499178	3

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***