

TEST REPORT

Product Name: Bottle speaker Model Number : SL553, 47413 FCC ID : 2BCGV0012

Prepared for Address

NINGBO CSTAR IMPRINT E-COMMERCE CO.,LTD B46, BUILDING B, INDUSTRIAL BLOCK, QIAOTOUHU STREET, NINGHAI COUNTY, NINGBO CITY, ZHEJIANG

PROVINCE

Prepared by Address

EMTEK (DONGGUAN) CO., LTD.

-1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone,

Dongguan, Guangdong, China

TEL: +86-0769-22807078 FAX: +86-0769-22807079

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1. TEST RESULT CERTIFICATION

NINGBO CSTAR IMPRINT E-COMMERCE CO.,LTD Applicant

B46, BUILDING B, INDUSTRIAL BLOCK, QIAOTOUHU STREET, NINGHAI Address

COUNTY.NINGBO CITY.ZHEJIANG PROVINCE

Manufacturer NINGBO CSTAR IMPRINT E-COMMERCE CO.,LTD

B46, BUILDING B, INDUSTRIAL BLOCK, QIAOTOUHU STREET, NINGHAI Address

COUNTY.NINGBO CITY.ZHEJIANG PROVINCE

EUT Bottle speaker

Model Name SL553, 47413

Trademark N/A

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 :	Apr 24, 2024 to May 09, 2024
Prepared by :	Warren Deng
	Warren Deng /Editor
	7im Dong
Reviewer:	
	<u>Tim Dong /Supervisor</u>
	ONGGUAA, OF THE STING
Approve & Authorized Signer:	Sam Lv / Manager



Modified History

Version	sion Report No. Revision Date		Summary	
	EDG2404240037E00102R	1	Original Report	





2. EUT Specification

Characteristics	Description		
Product:	Bottle speaker		
Model Number:	SL553, 47413 All products are identical except the model number and color.Here we selected SL553 for all the test.		
Sample:	1#		
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation		
Modulation:	GFSK, π/4-DQPSK, 8DPSK		
Operating Frequency Range(s) :	2402-2480MHz		
Number of Channels:	79 channels		
Transmit Power Max:	2.57 dBm(0.001807 W)		
Antenna Gain:	-0.58 dBi		
Power supply:	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 quidelines.

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:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation ²⁵
- 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 quality for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.



4. Measurement Result

Antenna gain: -0.58 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	1.20	1±1	2	0.4913	3
2441	GFSK	1.32	1±1	2	0.4952	3
2480	GFSK	1.11	1±1	2	0.4992	3
2402	Π/4-DQPSK	2.07	2±1	3	0.6185	3
2441	Π/4-DQPSK	1.83	2±1	3	0.6235	3
2480	Π/4-DQPSK	1.73	2±1	3	0.6284	3
2402	8DPSK	2.57	2±1	3	0.6185	3
2441	8DPSK	2.18	2±1	3	0.6235	3
2480	8DPSK	2.01	2±1	3	0.6284	3

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

*** End of Report ***