

TEST REPORT

Product Name : VALUE BLUETOOTH SOUNDBAR SPEAKER
iVBT32, iVBT32B.EXv24, iVBT32X (X could be
Model Number : single or multiple digits by any alphabets and
punctuation marks denoting different cabinet
colors, year versions and clients)
FCC ID : EMOIVBT32A

Prepared for : SDI Technologies Inc.
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Table of Contents

1. TEST RESULT CERTIFICATION	3
2. EUT SPECIFICATION	5
3. TEST REQUIREMENT	6
4. MEASUREMENT RESULT	7



1. TEST RESULT CERTIFICATION

Applicant : SDI Technologies Inc.

Address : 1299 Main Street, Rahway, NJ 07065, U.S.A

Manufacturer : SDI Technologies Inc.

Address : 1299 Main Street, Rahway, NJ 07065, U.S.A

Factory : Shenzhen Myon Technology Co., Ltd.

Address : 4/F, Building 7, Lijincheng Industrial Park, Gongye Road, Longhua District, Shenzhen, China

EUT : VALUE BLUETOOTH SOUNDBAR SPEAKER

Model Name : iVBT32, iVBT32B.EXv24, iVBT32X (X could be single or multiple digits by any alphabets and punctuation marks denoting different cabinet colors, year versions and clients)

Trademark : iHome

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 : July 10, 2024 to Aug 19, 2024

Prepared by : Warren Deng
Warren Deng /Editor

Reviewer : Galen Xiao
Galen Xiao /Supervisor

Approve & Authorized Signer : Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2407100161E00402R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	VALUE BLUETOOTH SOUNDBAR SPEAKER
Model Number:	iVBT32, iVBT32B.EXv24, iVBT32X (X could be single or multiple digits by any alphabets and punctuation marks denoting different cabinet colors, year versions and clients) All products are the same, only the model number, year version, buyers and cabinet color are different. Here we selected iVBT32 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:	-1.68 dBm(0.000679 W)
Antenna Gain:	-0.68 dBi
Power supply:	DC 5V from USB or 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: -0.68 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-2.60	-3±1	-2	0.1955764	3
2441	GFSK	-2.74	-3±1	-2	0.1971578	3
2480	GFSK	-3.11	-4±1	-3	0.1578541	3
2402	Π/4-DQPSK	-1.86	-2±1	-1	0.2462161	3
2441	Π/4-DQPSK	-2.18	-3±1	-2	0.1971578	3
2480	Π/4-DQPSK	-2.58	-3±1	-2	0.1987265	3
2402	8DPSK	-1.68	-2±1	-1	0.2462161	3
2441	8DPSK	-1.81	-2±1	-1	0.2482069	3
2480	8DPSK	-2.16	-3±1	-2	0.1987265	3

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

*** End of Report ***