

TEST REPORT

Product Name: Bluetooth Sing-Along Boombox

WH-115, M1 - 115

Model Number : M2M3M4M5M6M7M8M9M10 (M1 - M10,

please refer to model no. table)

FCC ID : EMO115A

Prepared for SDI Technologies Inc.

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1. TEST RESULT CERTIFICATION

Applicant SDI Technologies Inc.

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Manufacturer eKids, LLC. / KIDDESIGNS INC.

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

Factory eKids, LLC. / KIDDESIGNS INC.

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

EUT Bluetooth Sing-Along Boombox

WH-115, M1 - 115 M2M3M4M5M6M7M8M9M10 (M1 - M10, please refer to Model Name

model no. table)

Trademark eKids, 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 :	April 13, 2023 to April 26, 2023
Prepared by :	Kin Yang
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Reviewer:	7 in Dong
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Approve & Authorized Signer:	Sam Ly / Manager



Modified History

Version	on Report No. Revision Date		Summary
	EDG2304130062E00402R	1	Original Report





2. EUT Specification

Characteristics	Description				
Product:	Bluetooth Sing-Along Boombox				
Model Number:	WH-115, M1 - 115 M2M3M4M5M6M7M8M9M10 (M1 - M10, please refer to model no. table) All products are the same, only the model number and color of appearance are different Here we selected WH-115 for all the test				
Sample:	1#				
Device Type:	Bluetooth V5.3				
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:	1.91 dBm(0.001552 W)				
Antenna Gain:	-0.58 dBi				
Power supply:	DC 4.5V from battery				
Evaluation applied:	☐ MPE Evaluation ☐ SAR Evaluation				



Model: $M_1-115 M_2M_3M_4M_5M_6M_7M_8M_9M_{10}$ (M_1-M_{10} , please refer to model no. table)

Model no. table

Part of model #	Mı	M ₂	M ₃	Ma	M ₅	M ₆	M ₇	M ₈	Mg	M ₁₀
Number of digit(s)	2 to 3	2	1	1	1 to 2	1	1 to 3	1 to 4	2	1
Description	2 to 3 digits alphabets combination by "a" – "2" for brand	1 to 2 digits alphabets combination by "a" - "Z" special character version Or blank	Or blank	"U" for Europe version Or blank	"E" for English content Or "F" for English & French Or "3" for 3 language version Or "5" for 5 languages version Or "11" for Europe version with 11 languages	Or "E" for having sound effect or speech effect Or "M" for having sound effect (Music)	"0"-"9" for year version Or "V0" – "V99" for year version	"M" for Movie version brand Or blank	"AK" for Walmart exclusive Or "AP" for Apple exclusive Or "KS" for Kohl's exclusive Or "TG" for Target exclusive blank	"I" for inner carton required Or "z" for direct to consumer on-line packaging Or "OL" for Amazon packaging Or blank



3. 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 \leq 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

When a single module works, the measurement results are as follows:

BT1

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-0.11	-0.69	-1±1	0	0.3099677	3
2441	GFSK	-0.33	-0.91	-1±1	0	0.3124740	3
2480	GFSK	1.01	0.43	1±1	2	0.4991785	3
2402	Π/4-DQPSK	0.52	-0.06	0±1	1	0.3902263	3
2441	Π/4-DQPSK	0.34	-0.24	0±1	1	0.3933815	3
2480	Π/4-DQPSK	1.65	1.07	1±1	2	0.4991785	3
2402	8DPSK	0.83	0.25	0±1	1	0.3902263	3
2441	8DPSK	0.81	0.23	0±1	1	0.3933815	3
2480	8DPSK	1.91	1.33	1±1	2	0.4991785	3

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

*** End of Report ***