

TEST REPORT

Product Name: CD boombox player

CD-X2A, CD-X2B, CD-X2C, CD-X2D, CD-X9B, **Model Number:**

CD-X9C

FCC ID : 2AY38-X2A

Prepared for

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1. TEST RESULT CERTIFICATION

Applicant DONGGUAN YEST SCIENCE&TECHNOLOGY CO.,LTD

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EUT CD boombox player

Model Name CD-X2A, CD-X2B, CD-X2C, CD-X2D, CD-X9B, CD-X9C

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 :	Jun 13, 2024 to Jul 04, 2024
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Reviewer:	
	Tim Dong /Supervisor
	NGGUAN & SITING
Approve & Authorized Signer:	Sam Lv / Manager



Modified History

Version	Report No.	Revision Date	Summary
	EDG2406130133E00202R	1	Original Report





2. EUT Specification

Characteristics	Description		
Product:	CD boombox player		
CD-X2A, CD-X2B, CD-X2C, CD-X2D, CD-X9B, CD-X9C All products are identical except the model number and color.Here selected CD-X2A for all the test.			
Sample:	1#		
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:	-0.92 dBm(0.000809 W)		
Antenna Gain:	-0.68 dBi		
Power supply:	AC 120V,60Hz DC 9V 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: -0.68 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-1.90	-1±1	0	0.3100	3
2441	GFSK	-2.80	-2±1	-1	0.2482	3
2480	GFSK	-4.29	-4±1	-3	0.1579	3
2402	П/4-DQPSK	-1.29	-1±1	0	0.3100	3
2441	П/4-DQPSK	-2.20	-2±1	-1	0.2482	3
2480	Π/4-DQPSK	-3.64	-3±1	-2	0.1987	3
2402	8DPSK	-0.92	0±1	1	0.3902	3
2441	8DPSK	-1.77	-1±1	0	0.3125	3
2480	8DPSK	-3.39	-3±1	-2	0.1987	3

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

*** End of Report ***