TEST REPORT

Product Name : RETRO WIRELESS CASSETTE RADIO
Model Number : AI7022, AI7022-BLKDW, AI7022-BLKLW, LT-BT8585U, AI7022-XXXXXX (X= Blank, 0-9, A-Z, a-z, represents appearance color.)
FCC ID : 2AHW8-LT-BT8585U

Prepared for : LEOTEC ELECTRONICS CO.,LTD
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1. TEST RESULT CERTIFICATION

Applicant	:	LEOTEC ELECTRONICS CO.,LTD
Address	:	174 Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China
Manufacturer	:	LEOTEC ELECTRONICS CO.,LTD
Address	:	174 Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China
Factory	:	LEOTEC ELECTRONICS CO.,LTD
Address	:	174 Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China
EUT	:	RETRO WIRELESS CASSETTE RADIO
Model Name	:	AI7022, AI7022-BLKDW, AI7022-BLKLW, LT-BT8585U, AI7022-XXXXXX (X= Blank, 0-9, A-Z, a-z, represents appearance color.)
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 (2020) 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 : May 11, 2026 to June 09, 2026

Prepared by : Jessica Zhang /Editor

Reviewer : Warren Deng /Supervisor

Approve & Authorized Signer : Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2605110335E00202R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	RETRO WIRELESS CASSETTE RADIO
Model Number:	AI7022, AI7022-BLKDW, AI7022-BLKLW, LT-BT8585U, AI7022-XXXXXX (X= Blank, 0-9, A-Z, a-z, represents appearance color.) (Note: These models are the same, except for the model names and color;AI7022 was selected for full 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:	2.49 dBm(0.001774W)
Antenna Gain:	-0.58 dBi
Power supply:	AC 120V/60Hz DC 7.5V 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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 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 up Power (dBm)	Max tune up power (dBm)	Calculation Result	Calculation threshold(1-g SAR)
2402	GFSK	0.76	0±1	1	0.3902	3
2441	GFSK	0.97	1±1	2	0.4952	3
2480	GFSK	1.55	1±1	2	0.4992	3
2402	Π/4-DQPSK	1.35	1±1	2	0.4913	3
2441	Π/4-DQPSK	1.67	1±1	2	0.4952	3
2480	Π/4-DQPSK	2.21	2±1	3	0.6284	3
2402	8DPSK	1.72	1±1	2	0.4913	3
2441	8DPSK	1.94	2±1	3	0.6235	3
2480	8DPSK	2.49	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 ***