

TEST REPORT

Product Name : Double Sided Portable Vanity Mirror with Bluetooth Audio
Model Number : iCVBT82, iCVBT82X (X could be single or multiple digits by any alphabets and punctuation marks denoting different year version, cartoon brands, buyers and colors)
FCC ID : EMOICVBT82A

Prepared for : SDI Technologies Inc.
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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.
EUT : Double Sided Portable Vanity Mirror with Bluetooth Audio
Model Name : iCVBT82, iCVBT82X (X could be single or multiple digits by any alphabets and punctuation marks denoting different year version, cartoon brands, buyers and colors)
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 : January 22, 2024 to March 22, 2024

Prepared by :

Warren Deng

Warren Deng /Editor

Reviewer :

Tim Dong

Tim Dong /Supervisor

Approve & Authorized Signer :

Sam Lv 
Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2401220263E00402R	March 22, 2024	Original Report



2. EUT Specification

Characteristics	Description
Product:	Double Sided Portable Vanity Mirror with Bluetooth Audio
Model Number:	iCVBT82, iCVBT82X (X could be single or multiple digits by any alphabets and punctuation marks denoting different year version, cartoon brands, buyers and colors) All products are the same, only the model number and color of appearance are different. Here we selected iCVBT82 for all the test.
Sample:	1#
Device Type:	Bluetooth V5.3
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:	2.78 dBm(0.001897 W)
Antenna Gain:	0 dBi
Power supply:	DC 9V from Adapter
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

1 Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

4. Measurement Result

Antenna gain: 待提供 dBi

Mode	Frequency (MHz)	Output Power(dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)
GFSK	2402	0.26	0.26	0±1	1	1.26	0.000250	1
	2441	-0.87	-0.87	-1±1	0	1.00	0.000199	1
	2480	-2.06	-2.06	-3±1	-2	0.63	0.000126	1
pi/4-DQPSK	2402	2.39	2.39	2±1	3	2.00	0.000397	1
	2441	1.2	1.2	1±1	2	1.58	0.000315	1
	2480	-0.06	-0.06	-1±1	0	1.00	0.000199	1
8-DPSK	2402	2.78	2.78	2±1	3	2.00	0.000397	1
	2441	1.52	1.52	1±1	2	1.58	0.000315	1
	2480	0.31	0.31	0±1	1	1.26	0.000250	1

*** End of Report ***