

TEST REPORT

Product Name : **Wireless Qi Charging Bedside Clock Stereo
Speaker with Single Day Alarm and Dual USB
Charging**
Model Number : **HW5, HW5.EXV25, HW5X (X could be single or
multiple digits by any alphabets and
punctuation marks denoting different year
version, buyers and cabinet colors)**
FCC ID : **EMOHW5E**

Prepared for : SDI Technologies Inc.
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Report Number : ENS2507110193W00504R
Date of sample receipt : Jul 11, 2025
Date(s) of Tests : Jul 11, 2025 to Jul 29, 2025
Date of issue : Jul 29, 2025

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1. TEST RESULT CERTIFICATION

Applicant : SDI Technologies Inc.
Address : 1299 Main Street, Rahway, NJ 07065, U.S.A
Manufacturer : Hotel Technologies Inc.
Address : 1299 Main Street, Rahway, NJ 07065, U.S.A
EUT : Wireless Qi Charging Bedside Clock Stereo Speaker with Single Day Alarm and Dual USB Charging
Model Name : HW5, HW5.EXV25, HW5X (X could be single or multiple digits by any alphabets and punctuation marks denoting different year version, buyers and cabinet colors)
Trademark : iHome

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091	PASS

The above equipment was tested by EMTEK (SHENZHEN) 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), § 2.1091..

The test results of this report relate only to the tested sample identified in this report

Date of Test : Jul 11, 2025 to Jul 29, 2025

Prepared by : 
Una Yu /Editor

Reviewer : 
Joe Xia/Supervisor

Approve & Authorized Signer : 
Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2507110193W00504R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Wireless Qi Charging Bedside Clock Stereo Speaker with Single Day Alarm and Dual USB Charging
Model Number:	HW5, HW5.EXV25, HW5X (X could be single or multiple digits by any alphabets and punctuation marks denoting different year version, buyers and cabinet colors) (Note: These models are the same, except for the model names, year version, buyers and cabinet color;HW5 was selected for full 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:	0.95 dBm(0.001245 W)
Transmit Power Max:	PCB Antenna
Antenna Gain:	-0.68 dBi
Power supply:	DC 12V from Adapter Adapter:GJ60WD-1200500DP INPUT:100-240V~50/60Hz 1.5A Max Output:12V $\approx$ 5A
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

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

gain:	-0.68	FCC MPE						
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	-0.03	-0.71	-1±1	0	1.00	0.000170	1
	2441	-0.47	-1.15	-1±1	0	1.00	0.000170	1
	2480	-0.29	-0.97	-1±1	0	1.00	0.000170	1
pi/4-DQPSK	2402	0.66	-0.02	0±1	1	1.26	0.000214	1
	2441	0.27	-0.41	0±1	1	1.26	0.000214	1
	2480	0.42	-0.26	0±1	1	1.26	0.000214	1
8-DPSK	2402	0.95	0.27	0±1	1	1.26	0.000214	1
	2441	0.63	-0.05	0±1	1	1.26	0.000214	1
	2480	0.77	0.09	0±1	1	1.26	0.000214	1

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

*** End of Report ***