TEST REPORT

Product Name : C&B Waterproof Bluetooth Speaker
Model Number : CT02132, 25640
FCC ID : 2BCGV0034

Prepared for	:	NINGBO CSTAR IMPRINT E-COMMERCE CO., LTD.
Address	:	B46, BUILDING B, INDUSTRIAL BLOCK, QIAOTOUHU STREET, NINGHAI COUNTY, NINGBO CITY, ZHEJIANG PROVINCE
Prepared by	:	EMTEK (SHENZHEN) CO., LTD.
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Report Number	:	ENS2508040049W00302R
Date of sample receipt	:	Aug 04, 2025
Date(s) of Tests	:	Aug 04, 2025 to Nov 10, 2025
Date of issue	:	Nov 11, 2025

Table of Contents

1. TEST RESULT CERTIFICATION 3
2. EUT SPECIFICATION 5
3. TEST REQUIREMENT 6
4. MEASUREMENT RESULT 7

1. TEST RESULT CERTIFICATION

Applicant	:	NINGBO CSTAR IMPRINT E-COMMERCE CO., LTD.
Address	:	B46, BUILDING B, INDUSTRIAL BLOCK, QIAOTOUHU STREET, NINGHAI COUNTY, NINGBO CITY, ZHEJIANG PROVINCE
Manufacturer	:	NINGBO CSTAR IMPRINT E-COMMERCE CO., LTD.
Address	:	B46, BUILDING B, INDUSTRIAL BLOCK, QIAOTOUHU STREET, NINGHAI COUNTY, NINGBO CITY, ZHEJIANG PROVINCE
EUT	:	C&B Waterproof Bluetooth Speaker
Model Name	:	CT02132, 25640
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
§ 15.247(i), § 2.1093	**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 (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 : Aug 04, 2025 to Nov 10, 2025

Prepared by : Una Yu /Editor

Reviewer : Joe Xia/Supervisor

Approve & Authorized Signer : Lisa Wang/Manager

EMTEK (SHENZHEN) CO., LTD. TESTING

Modified History

Version	Report No.	Revision Date	Summary
	ENS2508040049W00302R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	C&B Waterproof Bluetooth Speaker
Model Number:	CT02132, 25640 All products are identical except the model number.Here we selected CT02132 for all the 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:	-4.73 dBm(0.000337W)
Antenna Gain:	2.338 dBi
Power supply:	DC 5V from USB DC3.7V 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: 2.338 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	EIRP (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	Calculation threshold(1-g SAR)
2402	GFSK	-6.45	-4.112	-4±1	-3	0.1554	3
2441	GFSK	-6.81	-4.472	-4±1	-3	0.1566	3
2480	GFSK	-5.48	-3.142	-3±1	-2	0.1987	3
2402	Π/4-DQPSK	-5.93	-3.592	-3±1	-2	0.1956	3
2441	Π/4-DQPSK	-6.42	-4.082	-4±1	-3	0.1566	3
2480	Π/4-DQPSK	-4.79	-2.452	-2±1	-1	0.2502	3
2402	8DPSK	-5.62	-3.282	-3±1	-2	0.1956	3
2441	8DPSK	-6.04	-3.702	-3±1	-2	0.1972	3
2480	8DPSK	-4.73	-2.392	-2±1	-1	0.2502	3

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

*** End of Report ***