

TEST REPORT

Product Name : light up dock wireless earbuds
Model Number : CT04044, CPP-6743
FCC ID : 2ABHA0120

Prepared for : Ningbo Cstar Imp & Exp CO., LTD
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Report Number : EDG2212120014E00502R
Date(s) of Tests : December 12, 2022 to December 21, 2022
Date of issue : December 21, 2022

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1. TEST RESULT CERTIFICATION

Applicant : Ningbo Cstar Imp & Exp CO., LTD
 Address : Floor 4,Building E, No. 655-90,Qiming Road, Yinzhou Investment &Innovation Center, Ningbo, China
 Manufacturer : Ningbo Cstar Imp & Exp CO., LTD
 Address : Floor 4,Building E, No. 655-90,Qiming Road, Yinzhou Investment &Innovation Center, Ningbo, China
 EUT : light up dock wireless earbuds
 Model Name : CT04044, CPP-6743
 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 : December 12, 2022 to December 21, 2022

Prepared by : Warren Deng

Warren Deng /Editor

Reviewer : Tim Dong

Tim Dong /Supervisor

Approve & Authorized Signer :  EMTEK (DONGGUAN) CO., LTD. TESTING

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2212120014E00502R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	light up dock wireless earbuds
Model Number:	CT04044, CPP-6743 These model are the same expect the model name and appearance, Here select CT04044 for 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:	79 channels
Transmit Power Max:	-5.32 dBm(0.00029W)
Antenna Gain:	1.7 dBi
Power supply:	DC 5V from USB, DC 3.7V from battery
Evaluation applied:	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:1.7 dBi

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2.402	GFSK	-5.32	-6±1	-5	0.0980	3
2.441	GFSK	-8.37	-9±1	-8	0.0495	3
2.480	GFSK	-9.52	-10±1	-9	0.0397	3
2.402	Π/4-DQPSK	-7.73	-8±1	-7	0.0618	3
2.441	Π/4-DQPSK	-7.97	-8±1	-7	0.0623	3
2.480	Π/4-DQPSK	-8.91	-9±1	-8	0.0499	3
2.402	8DPSK	-7.53	-8±1	-7	0.0618	3
2.441	8DPSK	-7.7	-8±1	-7	0.0623	3
2.480	8DPSK	-8.69	-9±1	-8	0.0499	3

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

*** End of Report ***