MPE Test Report

Report No.:	CGDX-ESH-P22101028B-2
FCC ID:	2AUB7-CKENC1R
Product:	TWS earbuds
Test Model:	CKENC1
Received Date:	Oct.25, 2022
Test Date:	Oct.25 to Nov.05, 2022
Issued Date:	Nov.18, 2022
Applicant:	Shenzhen BEB Electronics CO., Limited
Address:	Xinhuiteng Technology Park,Baoan District,Shenzhen,518102,Guangdong,China
Manufacturer:	Shenzhen BEB Electronics CO., Limited
Address:	Xinhuiteng Technology Park,Baoan District,Shenzhen,518102,Guangdong,China
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation
Lab Address:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

ACCREDITED
Test Lab
Cert 2343.01

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Release Control Record

Issue No.	Description	Date Issued
CGDX-ESH-P22101588B-2	Original release	Nov.18, 2022

1 Certificate of Conformity

Product:	TWS earbuds
Brand:	--
Test Model:	CKENC1
Applicant:	Shenzhen BEB Electronics CO., Limited
Test Date:	Oct.25 to Nov.05, 2022
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-2019

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Yan.Zhou , **Date:** Nov.18, 2022

Yan ZHOU

Project Engineer

Approved by : Sean Yu , **Date:** Nov.18, 2022

Sean YU

RF Supervisor

2 General Information

2.1 General Description of EUT

Product	TWS earbuds
Brand	--
Test Model	CKENC1
Power Rating	Powered by USB 5Vdc or battery
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 5.0
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Output Power	6.03 dBm
Antenna Type	Chip Antenna
Antenna Connector	--
Antenna Gain	1.95 dBi

Note:

1. For more details, please refer to the User's manual of the EUT.

3 RF Exposure

The corresponding SAR Exclusion Threshold condition, listed below:
1) 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)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion.
2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
a) [Threshold at 50 mm in step1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
b) [Threshold at 50 mm in step1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3.1 Classification

The antenna of this product, under normal use condition, is at less than 20cm from the body of the user. So the device is classified as **Portable Device**.

3.2 SAR Test Exclusion Thresholds

The tuned conducted Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-EDR(FHSS)	2402-2480	5.1	±1	4.1	6.1

The measured conducted Power

Mode	Frequency (MHz)	Max. Conducted Output power(dBm)
BT-EDR(FHSS)	2480	6.03

SAR Test Exclusion Thresholds

Frequency Band (MHz)	Max. Conducted output power(dBm)	Distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g Extremity SAR	Verdict
2402-2480	6.1	5	1.282	3	7.5	Exempt from SAR

Conclusion:

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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