TEST REPORT

Product Name	**:**	**Bluetooth earbuds**
Model Number	**:**	**MZX6200, MZX6200-XXX(X=A-Z), MZX6200-BLK, MZX6200-WHT, MZX6200-TRD, MZX6200-PERI**
FCC ID	**:**	**2A8MIMZX6200**

Prepared for	:	Jiang Su Yisin Tech Co., Ltd
Address	:	Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
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Report Number	:	EDG2303220128E01302R
Date(s) of Tests	:	March 22, 2023 to April 24, 2023
Date of issue	:	April 24, 2023

Table of Contents

1. TEST RESULT CERTIFICATION

Applicant	:	Jiang Su Yisin Tech Co., Ltd
Address	:	Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN
Manufacturer	:	Sakar International Inc.
Address	:	195 Carter Drive Edison, New Jersey 08817, USA
Factory	:	Shenzhen Asia Universal Technology Co., Ltd.
Address	:	Room 05, 22nd Floor, Yishang Center, No. 22, Jiaan South Road, Baoan District, Shenzhen, China
EUT	:	Bluetooth earbuds
Model Name	:	MZX6200, MZX6200-XXX(X=A-Z), MZX6200-BLK, MZX6200-WHT, MZX6200-TRD, MZX6200-PERI
Trademark	:	Altec Lansing

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 : March 22, 2023 to April 24, 2023

Prepared by : Xia Yang /Editor

Reviewer : Tim Dong /Supervisor

Approve & Authorized Signer : Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2303220128E01302R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	Bluetooth earbuds
Model Number:	MZX6200, MZX6200-XXX(X=A-Z), MZX6200-BLK, MZX6200-WHT, MZX6200-TRD, MZX6200-PERI All products are the same, only the model number and color of appearance are different Here we selected MZX6200 for all the test The principle diagram of the left and right headphones is the same, only there are differences in the wiring and control software, and both headphones are tested include Conducted Emission, Radiated Spurious Emissions below 1GHz and Maximum Peak Conducted Output Power. Other projects chose the left earphone for testing because Maximum Peak Conducted Output Power is greater than the right earphone
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:	1.97 dBm(0.001574 W)
Antenna Gain:	1.59 dBi
Power supply:	DC 3.7V 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:1.59 dBi

Test results for the left earphone:

Mode	Channel Frequency (MHz)	Measured Power (dBm)	E.I.R.P (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
GFSK	2402	-0.04	1.55	1±1	2	0.4912658	3
	2441	-0.40	1.19	1±1	2	0.4952379	3
	2480	1.05	2.64	2±1	3	0.6284284	3
pi/4-DQPSK	2402	0.46	2.05	2±1	3	0.6184670	3
	2441	0.31	1.90	1±1	2	0.4952379	3
	2480	1.65	3.24	3±1	4	0.7911445	3
8-DPSK	2402	0.74	2.33	2±1	3	0.6184670	3
	2441	0.63	2.22	2±1	3	0.6234676	3
	2480	1.97	3.56	3±1	4	0.7911445	3

Test results for the right earphone:

Mode	Channel Frequency (MHz)	Measured Power (dBm)	E.I.R.P (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
GFSK	2402	0.44	2.03	2±1	3	0.6184670	3
	2441	0.29	1.88	1±1	2	0.4952379	3
	2480	0.42	2.01	2±1	3	0.6284284	3
pi/4-DQPSK	2402	1.14	2.73	2±1	3	0.6184670	3
	2441	1.12	2.71	2±1	3	0.6234676	3
	2480	1.17	2.76	2±1	3	0.6284284	3
8-DPSK	2402	1.62	3.21	3±1	4	0.7786038	3
	2441	1.43	3.02	3±1	4	0.7848992	3
	2480	1.58	3.17	3±1	4	0.7911445	3

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

*** End of Report ***