

TEST REPORT

Product Name: True Wireless Earphones

Model Number: V40088W-NOC, SKU#2102247

FCC ID : 2A3ZO-EBT1-22089

Prepared for Hong Kong Etech Groups Ltd.

Address 16/F, Block C, 2nd Phase of Central Avenue, Haihong

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1. TEST RESULT CERTIFICATION

Applicant : Hong Kong Etech Groups Ltd.

Address : 16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang

Road, Baoan District, Shenzhen, China

Manufacturer : Sakar International Inc

Address : 195 Carter Drive Edison, NJ, 08817, USA

Factory : Dongguan China Etech Groups Co.,Ltd

Address : Room501, Room401, Building 6, No.2 Hongjin Road, Hongmei Town, Dongguan

City, Guangdong Province

EUT : True Wireless Earphones

Model Name : V40088W-NOC, SKU#2102247

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 :	April 27, 2023 to May 12, 2023
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Modified History

Version	Report No.	Revision Date	Summary
	EDG2304270162E00402R	1	Original Report





2. EUT Specification

Characteristics	Description				
Product:	True Wireless Earphones				
Model Number:	V40088W-NOC, SKU#2102247 All products are the same, only the model number and color of appearance are different Here we selected V40088W-NOC for all the test				
Sample:	1#				
Device Type:	Bluetooth V5.1				
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(0.002972W)				
Antenna Type:	Ceramic Antenna				
Antenna Gain:	1.24 dBi				
Power supply:	DC 3.7V from battery				
Evaluation applied:	☐ MPE Evaluation ☐ 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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $[\sqrt{f_{(GHz)}}] \le 3.0$ 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: 1.24 dBi

When a single module works, the measurement results are as follows:

ВТ

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	3.94	5.18	5±1	6	1.2340038	3
2441	GFSK	3.15	4.39	4±1	5	0.9881295	3
2480	GFSK	1.63	2.87	2±1	3	0.6284284	3
2402	П/4-DQPSK	4.13	5.37	5±1	6	1.2340038	3
2441	П/4-DQPSK	3.31	4.55	4±1	5	0.9881295	3
2480	П/4-DQPSK	1.65	2.89	2±1	3	0.6284284	3
2402	8DPSK	4.73	5.97	5±1	6	1.2340038	3
2441	8DPSK	4.04	5.28	5±1	6	1.2439814	3
2480	8DPSK	2.50	3.74	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 ***