TEST REPORT

Report Number. ..... :	90595-25-72-25-PP003	
Date of issue..... :	2025-07-07	
Prepared by (+signature)..... :	Pale	Pale Cai
Reviewer (+signature)..... :	Duke	Duke Chen
Approved by (+signature) ..... :	Jason	Jason gao
Testing Laboratory name ..... :	SLG-CPC Testlaboratory Co., Ltd.	
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Applicant's name ..... :	Zhuhai Hengsheng Barcode Equipment Co., Ltd.	
Address..... :	Room # C301, 3rd Floor, No.#1/#2 building(Logistic building) of No.# 611 & No.# 613 Huayu Road, Xiangzhou District, Zhuhai City, Guangdong Province, China.	
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Standard(s) ..... :	§15.247(i), §2.1093	
Test item description ..... :	Bluetooth Key	
Trade Mark ..... :	N/A	
Model/Type reference ..... :	XP-680	
FCC ID ..... :	2A6QO-XP-680	
Date of receipt of test item..... :	2025-06-04	
Date (s) of performance of test:	2025-06-05 to 2025-06-15	
Summary of Test Results ..... :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		

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Modified History

Report No.	Revision Date	Summary
90595-25-72-25-PP003	2025-07-07	Original Report

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1. EUT Specification

Characteristics	Description
Product:	Bluetooth Key
Model Number:	XP-680
Sample:	1#
Device Type:	Bluetooth V5.0
Data Rate:	DSS: 1Mbps for GFSK modulation 2Mbps for pi/4-DQPSK modulation DTS: 1Mbps for GFSK modulation
Modulation:	DSS: GFSK, pi/4-DQPSK DTS: GFSK(1M)
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	DSS: 79 channels DTS: 40 channels
Transmit Power Max:	DSS: -3.82 dBm GFSK DSS: -4.70 dBm pi/4-DQPSK DTS: -3.66 dBm
Antenna Gain:	-5.27 dBi
Power supply:	/
Evaluation applied:	☐MPE Evaluation ☒SAR Evaluation

2. 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:

[(*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.

3. Measurement Result

Mode		Transmit Frequency(MHz)	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
BT	GFSK	2402	-5.92	-6±1	-5	0.098020	3
	GFSK	2441	-3.82	-4±1	-3	0.156608	3
	GFSK	2480	-4.77	-5±1	-4	0.125388	3
	pi/4-DQPSK	2402	-6.63	-7±1	-6	0.077860	3
	pi/4-DQPSK	2441	-4.70	-5±1	-4	0.124398	3
	pi/4-DQPSK	2480	-5.45	-6±1	-5	0.099599	3
BLE	GFSK(1M)	2402	-5.74	-6±1	-5	0.098020	3
	GFSK(1M)	2441	-3.66	-4±1	-3	0.156576	3
	GFSK(1M)	2480	-4.63	-5±1	-4	0.125388	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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