

FCC TEST REPORT

Report No.....: AB26080053FW04

FCC ID.....: **2BXBH-TYREIQS3**

Applicant.....: Shenzhen VAPON Technology Co. Ltd

Address.....: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province, china

Manufacturer.....: Shenzhen VAPON Technology Co. Ltd

Address.....: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province, china

Product Name.....: TPMS Programming Tool

Trade Mark.....: Vapon

Test Model.....: TyreIQ S3

Additional Model(s).....: TyreIQ

Standard.....: FCC 47 CFR §1.1310;FCC 47 CFR §2.1093
KDB 447498 D01 General RF Exposure Guidance v06

Date of Receipt.....: 2026.08.04

Date of Issue.....: 2026.09.03

Test Result.....: Pass

Compiled by:
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Huaijie Li

Supervised by:
(Printed Name + Signature) David Huang

David Huang

Approved by:
(Printed Name + Signature) Jay Liu

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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FCC TEST REPORT

EUT.....	: TPMS Programming Tool
Test Model.....	: TyreIQ S3
Applicant	: Shenzhen VAPON Technology Co. Ltd
Address.....	: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province, china
Manufacturer	: Shenzhen VAPON Technology Co. Ltd
Address.....	: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province, china

Test Result	Positive
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The test report merely corresponds to the test sample.

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REPORT VERSION

Version No.	Issue Date	Description
01	2026.09.03	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	TPMS Programming Tool
Trade Mark:	Vapon
Test Model:	TyreIQ S3
Additional Model(s):	TyreIQ
Model Difference	All models are the same circuit and RF module, except the model name
Hardware Version:	V1.0
Software Version:	V1.0
Power Supply:	Input:DC 8-18V
Battery:	DC 3.7V/3200mAh
EUT Supports Function: (Provided by the customer)	2.4GHz ISM Bands
Radio Specification Subject to this Report	
Bluetooth Version:	Bluetooth BDR + EDR
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Spacing:	1MHz
Channel Number(s):	79
Antenna Type:	Internal Antenna
Antenna Gain:	0.76dBi
Radio Specification Subject to this Report	
Radio Specification:	IEEE 802.11b/g/n
Frequency Range:	2412MHz~2462MHz for IEEE 802.11b/g/n(HT20) 2422MHz~2452MHz for IEEE 802.11n(HT40)
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Channel Number(s):	11 Channels for IEEE 802.11b/g/n(HT20) 7 Channels for IEEE 802.11n(HT40)
Antenna Type:	Internal Antenna
Antenna Gain:	0.76dBi
Radio Specification Subject to this Report	
Radio Specification:	IEEE 802.11a/n/ac
Frequency Range:	5180MHz~5240MHz for U-NII Band1 5745MHz~5825MHz for U-NII Band3
Modulation Type:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n(HT20)/ac(VHT20): 20MHz

	IEEE 802.11n(HT40)/ac(VHT40): 40MHz	
Channel Number(s):	U-NII Band1: 4 for IEEE 802.11a/n(HT20)/ac(VHT20) 2 for IEEE 802.11n(HT40)/ac(VHT40) U-NII Band3: 5 for IEEE 802.11a/n(HT20)/ac(VHT20) 2 for IEEE 802.11n(HT40)/ac(VHT40)	
Antenna Type:	Internal Antenna	
Antenna Gain:	U-NII Band1:	1.56dBi
	U-NII Band3:	3.37dBi
TPC Function:	Not Support	
DFS Function:	Slave without radar detection	

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +86 755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

CAB identifier: CN0185

Company Number: 33924

2. RF EXPOSURE EVALUATION

2.1 Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: “Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²² The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.²³ “

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

- 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
- 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.

2.2 Evaluation Result

Band/ Mode	f (MHz)	Evaluation Distance (mm)	RF Output Power (dBm)	Tolerance (dBm)	Max Tune-up Power(dBm)	Max. Tune-up Power(mW)	Calc. thresholds	SAR Test Exclusion Threshold
BT	2480	5	3.83	3(±1)	4.0	2.51	0.7911445	3.0
2.4G WiFi	2412	5	7.04	7(±1)	8.0	6.31	1.9598311	3.0
5.1G WiFi	5230	5	6.86	6(±1)	7.0	5.01	2.2813655	3.0
5.8G WiFi	5825	5	7.03	6.5(±1)	7.5	5.62	2.6980666	3.0

2.3 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01 v06. No SAR test is required.

*****THE END*****