



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

Report No.:
GZEM190801519904C01
Page: 1 of 9
FCC ID: 2ARDB-TRT12F

TEST REPORT

Application No.: GZEM2005012242CR
Applicant: Beijing Kingsmith Technology Co., Ltd
Address of Applicant: Floor 4, Building 25, Area 18, ABP Park, Fengtai, Beijing, China
Manufacturer: Beijing Kingsmith Technology Co., Ltd
Address of Manufacturer: Floor 4, Building 25, Area 18, ABP Park, Fengtai, Beijing, China
Factory: Beijing Kingsmith Technology Co., Ltd
Address of Factory: Floor 4, Building 25, Area 18, ABP Park, Fengtai, Beijing, China
Equipment Under Test (EUT):
FCC ID: 2ARDB-TRT12F
EUT Name: Motorized Treadmill
Model No.: TRT12F, TRT12F Pro, TRK12F, TRK12F Pro, TRK9F, TRK9F Pro, TRF1F, TRF1F Pro
☐
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: KINGSMITH
Standard(s) : 47 CFR Part 1.1307, Part 2.1093, KDB 447498
Date of Receipt: 2019-08-20
Date of Test: 2019-08-30 to 2019-10-15
Date of Issue: 2019-10-16 (For original report GZEM190801519904)
2020-05-19 (For copy report GZEM190801519904C01)

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-10-16		Original
02		2020-05-19		Copy report: Changed applicant, manufacturer and factory information; Changed EUT name and model number; Added trade mark;

Authorized for issue by:			
Tested By	 Jackson_Yuan /Project Engineer		2019-08-30 to 2019-10-15
			Date
Checked By	 Ricky_Liu /Reviewer		2020-05-19
			Date



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass

▣ **Remark for the copy report GZEM190801519904C01:**

The GZEM190801519904C01 report was an additional report based on report GZEM190801519904.

1. Changed applicant, manufacturer and factory information;
2. Changed EUT name and added trade mark;
3. Changed models: TRT12F, TRT12F Pro, TRK12F, TRK12F Pro, TRK9F, TRK9F Pro, TRF1F, TRF1F Pro;

According to the declaration of the applicant, between the new models changed in this report and original model SF-T7970, there were identical for layout, components used and internal wiring, just only difference being the model number.

Tests for original data please refer to report GZEM190801519904 for details.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 110-120 V, 60 Hz for main unit DC 3 V (2*AAA size battery) for remote control (FCC ID: 2ATCB-SF-T7970R)
Rated Power:	746W
Test Voltage:	AC 120 V, 60 Hz
Cable:	AC mains (unshielded, 1.2 m)
For BT function	
Antenna Gain:	0 dBi
Antenna Type:	PCB Antenna
Channel Spacing:	1MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK
Number of Channels:	79
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
For 2.4G function (Rx only)	
Antenna Gain:	0 dBi
Antenna Type:	PCB antenna
Modulation Type	GFSK
Number of Channels	1
Operation Frequency	2450MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.4 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

5.1.2 Conclusion

The Max conducted output power is 3.411 dBm in Highest channel (2.480 GHz);

3.411 dBm logarithmic terms convert to numeric result is nearly 2.19 mW

According to the formula. calculate the test result:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})}$

General RF Exposure = $(2.19 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{ GHz}} = 0.691$ ①

SAR requirement:

$S = 3.0$ ② ;

① $<$ ②.

So the SAR report is not required.



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6 Photographs

6.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM2005012242CR.

--End of Report--



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