

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological

Development District, Guangzhou, China 510663

Fax: +86 (0) 20 82075059 Page: 1 of 8
Email: ee.guangzhou@sgs.com FCC ID: 2AR8C17TFRN7500

1 Cover page

RF Exposure Evaluation Report

Application No.: GZEM1812005580CR **Applicant:** Tunturi New Fitness B.V.

Address of Applicant: P.O. Box 60001, 1320 AA, Purmerweg 1, 1311 XE Almere, The

Netherlands

Manufacturer: Tunturi New Fitness B.V.

Address of Manufacturer: P.O. Box 60001, 1320 AA, Purmerweg 1, 1311 XE Almere, The

Netherlands

Factory: Xiamen Mydo Sports Equipment Co., Ltd.

Address of Factory: No. 30, BANNAN ROAD, DONGFU STREET, HAICHANG DISTREET

Equipment Under Test (EUT):

FCC ID: 2AR8C17TFRN7500

EUT Name: MOTORIZED TREADMILL

Model No.: 17TFRN7500, 17TFRN7510 ¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Standard(s): 47 CFR Part 1, Subpart I 1.1310

Date of Receipt: 2018-12-18

Date of Test: 2019-01-10 to 2019-02-26

Date of Issue: 2019-03-01

Test Result: Pass*

^{*} In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2019-03-01		Original	

Authorized for issue by:			
Tested By	Kevin zhang	2019-01-10 to 2019-02-26	
	Kevin_Zhang /Project Engineer	Date	
Checked By	Riday Liu	2019-03-01	
	Ricky Liu /Reviewer	Date	



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4 General Information

4.1 General Description of EUT

Power Supply: AC 120V 60Hz
Test Voltage: AC 120V 60Hz

Cable: AC mains (unshielded, 1.2 m)

Antenna Gain 0 dBi

Antenna Type Integrated Antenna

Channel Spacing 1MHz

Bluetooth Version: V4.2 for classic

Modulation Type GFSK, $\pi/4DQPSK$

Number of Channels 79

Operation Frequency 2402MHz to 2480MHz

Spectrum Spread Frequency Hopping Spread Spectrum(FHSS)

Technology

4.2 Test Location

All tests were performed at:

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

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



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4.3 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-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 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-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)

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-2460, C-2584, G-449 and T-1179 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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4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None

4.6 Other Information Requested by the Customer

None



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)		
(A) Limits for Occupational/Controlled Exposures						
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
(B) Limits for General Population/Uncontrolled Exposure						
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.986 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
	Power (dBm)	(mW)	(mW/cm²)		
2402MHz	-3.522	0.444	0.00009	1.0	PASS

Note:

1. Refer to report No. GZEM181200558002 for EUT test Max Peak Output Power value. The distance r calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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