

Report No.: GZEM210100020603

Page: 1 of 8 FCC ID: 2API3-10401

TEST REPORT

Application No.:GZEM2101000206CRApplicant:R.F.E. ASIA PACIFIC LTD

Address of Applicant: Room 2608 - 2609, 1 Hung To Road, Kwun Tong, Hong Kong

Manufacturer: RFE EUROPA LTD.

Address of Manufacturer: 8 Clarendon Drive, Wymbush, Milton Keynes, MK8 8ED, England, United

Kingdom

Factory: Zhejiang Arcana Power Sports Tech. CO., LTD

Address of Factory: Nr.618 Xinxing Avenue, Zonghan, Emerging Industrial Area, Cixi, Zhejiang,

China, 315301

Equipment Under Test (EUT):

EUT Name: Bike

Model No.: AVUS-10401 C-21 Bike, AVUS-10501 C-21x Bike ♣

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

actually tested and which were electrically identical.

Trade mark: Adidas

Standard(s): 47 CFR Part 1.1310

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2021-01-12

Date of Test: 2021-01-28 to 2021-02-26

Date of Issue: 2021-03-01

Test Result: Pass*

Kobe Jian EMC Laboratory Manager

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



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-03-01		Original		

Authorized for issue by:			
Tested By	Jim Li		
	Jim Li /Project Engineer	-	
Reviewed By	Ridge Liu		
Reviewed by	Ricky Liu/Reviewer	-	



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2 Test Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

¤ Declaration of EUT Family Grouping:

Remark for original report GZEM210100020603:

Model No.: AVUS-10401 C-21 Bike, AVUS-10501 C-21x Bike

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.

Therefore only one model AVUS-10401 C-21 Bike was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC10.5V=7 x DC 1.5V "AA" batteries.

Cable(s): N/A

Function: Rower with BLE function
Operation Frequency: 2402MHz to 2480MHz

Modulation Type: GFSK Number of Channels: 40 Channel Spacing: 2MHz

Antenna Type: Integral Antenna

Antenna Gain: 0dBi declared by applicant

Hardware: EW-BLE-02-V13

Software: SV01

S/N: 20121400014 Test Software BTTest.exe

Power Setting 3 dBm can not be changed by user

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

No tests were sub-contracted.





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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-CL01:2018 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 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

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)] $\cdot \sqrt{f(GHz)} \le 3.0$ for 1-g SAR and ≤ 7.5 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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 Peak Output Power is 3.17 dBm on the channel 2.480 GHz 3.17 dBm logarithmic terms convert to numeric result is nearly 2.075 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] General RF Exposure = (2.07 mW / 5 mm) x $\sqrt{2}$.480 GHz = 0.453 (1) SAR requirement:

 $S = 3 \tag{2}$

(1) < (2)

So the SAR report is not required.



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6 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZEM2101000206CR

- End of the Report -



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