

# RF Exposure Evaluation Report

Product Name : BIKE POWER TRAINER

Model No. : NOZA V

FCC ID. : 2A2P5NOZAV

Applicant : Acer Gadget Inc.

Address : 6th Floor, No. 68 Ruiguang Road, Neihu District, Taipei City

Date of Receipt : Jan. 25, 2022

Date of Declaration : Apr. 28, 2022

Report No. : 2210755R-RFUSMPEV02-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

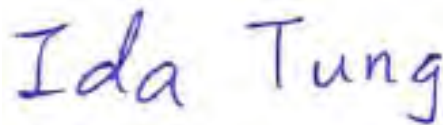
Issued Date: Apr. 28, 2022

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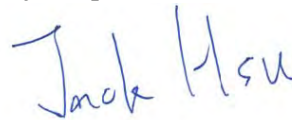
Product Name	BIKE POWER TRAINER	
Applicant	Acer Gadget Inc.	
Address	6th Floor, No. 68 Ruiguang Road, Neihu District, Taipei City	
Manufacturer	Acer Gadget Inc.	
Model No.	NOZA V	
FCC ID.	2A2P5NOZAV	
Trade Name	XPLOVA	
Applicable Standard	KDB 447498 D01 v06	<input checked="" type="checkbox"/> Minimum test separation distance $\geq 20$ cm <input type="checkbox"/> For low power devices
Test Result	Complied	

Documented By :



( Project Specialist / Ida Tung )

Tested By :



( Senior Engineer / Jack Hsu )

Approved By :



(Manager / Tim Sung )

## **Revision History**

Report No.	Version	Description	Issued Date
2210755R-RFUSMPEV02-A	V1.0	Initial issue of report.	Apr. 28, 2022

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	BIKE POWER TRAINER
Trade Name	XPLOVA
Model No.	NOZA V
FCC ID.	2A2P5NOZAV
Frequency Range	ANT+: 2457MHz Bluetooth: 2402-2480MHz
Channel Control	Auto
Antenna Type	PCB Antenna
Antenna Gain	Refer to the table “Antenna List”

### 1.2. Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Darfon Electronics Corp.	NOZA V	PCB Antenna	-13.8dBi for 2.4GHz

## 2. Test Facility

Site Description : Accredited by TAF  
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd  
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City,  
24451, Taiwan

Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City  
333411, Taiwan, R.O.C.

Phone number : +886-3-275-7255  
Fax number : +866-3-327-8031  
Email address : [info.tw@dekra.com](mailto:info.tw@dekra.com)  
Website : <http://www.dekra.com.tw>

### 3. RF Exposure Evaluation

#### 3.1. Standard Applicable

According to KDB 447498 D01 (7.1), A minimum test separation distance  $\geq 20$  cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits.

#### 3.2. Limits

According to FCC 1.1310: 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 1.1307(b)

##### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$

### 3.3. Test Result of RF Exposure Evaluation

Product : BIKE POWER TRAINER  
Test Item : RF Exposure Evaluation

#### Bluetooth

Band	Frequency (MHz)	Conducted maximum Peak Power (dBm)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
BT	2480	4.02	-13.8	0.000021	1

Note: The conducted output power is refer to report No.: 2210755R-RFUSBLEV01-A from the DEKRA.

#### ANT+

Band	Frequency (MHz)	Conducted maximum Peak Power (dBm)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
ANT+	2457	1.57	-13.8	0.000012	1

Note: The conducted output power is refer to report No.: 2210755R-RFUSOTHV13-A from the DEKRA.

Results	PASS
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