Radio Exposure Evaluation Report

FCC ID	:	**2A2UE-UF-001**
Equipment	:	**unfilter u_puretone**
Brand Name	:	**unfilter**
Model Name	:	**uf-001**
Applicant	:	**UNFILTER COMPANY LTD** **5F.-2, No.308, Sec. 1, Neihu Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)**
Manufacturer	:	**OBO Pro.2 Inc.** **No. 18 Yan-Wu Road, Taoyuan City 330, Taiwan(R.O.C.)**
Standard	:	**47 CFR FCC Part 2 Subpart J, section 2.1093**

The product was received on Jun. 08, 2021, and testing was started from Jun. 25, 2021 and completed on Jun. 25, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FA160334-01	01	Initial issue of report	Aug. 27, 2021

Note : From Sporton Project No.:FA160334.

1 General Description

1.1 Information

1.1.1 EUT General Information

RF General Information			
Evaluation Mode	**Frequency Range (MHz)**	**Operating Frequency (MHz)**	**Modulation Type**
Bluetooth	2400-2483.5	2402-2480	BR / EDR: FHSS (GFSK / π/4-DQPSK / 8DPSK) LE: DSSS (GFSK)

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	FEIMIN TECHNOLOGY CO.,LTD.	SYN3 Antenna 1812	FPC	N/A	0

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 can be used as transmitting/receiving antenna.

1.1.3 Accessories

Accessories				
Charging Case	**Brand Name**	unfilter	**Model Name**	Uf-001
	Manufacturer	OBO Pro.2 Inc.	**SN**	uf29AE000005
Charging Case Battery	**Brand Name**	Xin Yu GanFeng Eletronices Co.,Ltd.	**Model Name**	702334
	Manufacturer	Xin Yu GanFeng Eletronices Co.,Ltd.	**SN**	uf29AE000005
	Power Rating	3.7Vdc, 500mAh	**Type**	Li-ion
USB Type C Cable	**Brand Name**	unfilter	**Model Name**	u_puretone
	Power Cord	0.12 meter, non-shielded cable		
Battery	**Brand Name**	XINYU GANFENG ELECTRONICS	**Model Name**	1254
	Manufacturer	XINYU GANFENG ELECTRONICS	**SN**	Uf11AB999999
	Power Rating	3.7 Vdc, 60 mAh	**Type**	Li-ion, Yes

Reminder: Regarding to more detail and other information, please refer to user manual.

1.2 Testing Location

Test Lab.：Sporton International Inc. Hsinhua Laboratory			
☒	Hsinhua (TAF: 3785)	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)	
		TEL: 886-3-327-3456	**FAX:** 886-3-327-0973
	Test site Designation No. TW3785 with FCC.		
☐	Wen 33rd.St. (TAF: 3785)	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)	
		TEL: 886-3-318-0787	**FAX:** 886-3-318-0287
	Test site Designation No. TW0008 with FCC.		

2 RF Exposure Evaluation

2.1 Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2 SAR evaluation

1. Per FCC KDB 447498 D01 v06, 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*)]•
   [$\sqrt{f}_{(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   - $f_{(GHz)}$ 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

Max. Power	Tolerance	Tune-up Max. Power		Test Distance	Frequency	Exclusion
(dBm)	(dB)	(dBm)	(mW)	(mm)	(GHz)	Thresholds
9.26	0.5	9.76	9.46	5	2.48	2.98

2. Per FCC KDB 447498 D01 v06 exclusion thresholds is 2.98 < 3, RF exposure evaluation is not required.

———THE END———