

■ Report No.: DDT-R20072821-1E6

■Issued Date: Aug. 31, 2020

RF EXPOSURE REPORT

FOR

Applicant		Sublue Underwater Al Co.,Ltd.		
		NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK , BINHAI TIANJIN CHN		
Equipment under Test		WhiteShark Navbow+		
Model No.	-	Navbow+		
Trade Mark	• •	N/A		
FCC ID	•	2ASEE-AP1002		
Manufacturer		Sublue Underwater Al Co.,Ltd.		
Address	NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK, BINHAI TIANJIN CHN			

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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TEST REPORT DECLARE

Applicant		Sublue Underwater Al Co.,Ltd.	
Address	:	NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK , BINHAI TIANJIN CHN	
Equipment under Test	:	WhiteShark Navbow+	
Model No.	:	Navbow+	
Trade mark	:	N/A	
Manufacturer	:	Sublue Underwater Al Co.,Ltd.	
Address	:	NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK, BINHAI TIANJIN CHN	

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R20072821-1E6		
Date of Receipt:	Jul. 28, 2020	Date of Test:	Jul. 28, 2020 ~ Aug. 31, 2020

Prepared By:

Sam Li/Engineer

Damon Hu/EMC Manager

Approved B

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Aug. 31, 2020	

1. General information

1.1. Description of Equipment

EUT* Name	:	WhiteShark Navbow+
Model Number	:	Navbow+
EUT function description	:	Please reference user manual of this device
Power supply	••	DC 14.8V by Polymer Li-ion built-in battery
Radio Specification	••	Bluetooth V4.2
Operation frequency	••	2402 MHz-2480 MHz
Modulation	••	GFSK
Data rate	••	1 Mbps
Antenna Type	••	PCB antenna, maximum PK gain: -1.40 dBi
Sample Number	:	N/A

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

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Guangdong Province, China, 523808

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2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 calculation

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

GFSK (Peak)						
Channel	Channel 0	Channel 19	Channel 39			
Target (dBm)	1.5	1.5	1.5			
Tolerance ±(dB)	1	1	1			

Estimtion Result

Worse case is as below: [2480MHz, 2.50 dBm, 1.78 mW) output power]

 $(1.78/5) \cdot [\sqrt{2.480(GHz)}] = 0.561 < 3.0 \text{ for } 1-g \text{ SAR}$

Then SAR evaluation is not required

END OF REPORT