

RF EXPOSURE REPORT

Applicant	World of Watersports Limited
Address	Unit B, 3/F Eton Building, 288 Des Voeux Road, Central, Hong Kong

Manufacturer or Supplier	Top Loyal Electronics Co.,Ltd
Address	NO.22 GuangMing Ave, Dongcheng district, DongGuan city, GuangDong Province 523126
Product	WOW SOUND BUOY
Brand Name	WORLD OF WATERSPORTS
Model	199000
Additional Model & Model Difference	199010
Date of tests	Jan. 03, 2019~ Jan. 30, 2019

- **KDB 447498 D01**
- **☐** IEEE C95.1

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Breeze Jiang	Approved by Chris Chen
Project Engineer / EMC Department	Manager / EMC Department

preerl

Date: Mar. 07, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM190103N045	Original release	Mar. 07, 2019

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1. CERTIFICATION

FCC ID:	2AK26-199000				
PRODUCT:	WOW SOUND BUOY				
BRAND NAME:	WORLD OF WATERSPORTS				
MODEL NO.:	199000				
ADDITIONAL NO.: 199010					
TEST SAMPLE:	Engineering Sample				
APPLICANT:	World of Watersports Limited				
STANDARDS:	FCC Part 2 (Section 2.1093)				
	KDB 447498 D01				
	IEEE C95.1				

Remarks: Additional model 199010 is identical with the test model 199000 except the model number for marketing purpose.

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2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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,16 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

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.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-(f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(MHz))]$ for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device.**

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4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)	
GFSK	2402-2480	-1	+-2	-3	1	
8DPSK	2402-2480	-1	+-2	-3	1	

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	0.98
8DPSK	2402	-0.77

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	1	5	0.39	3.0	7.5	Exempt from SAR

Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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