



RF EXPOSURE REPORT

Applicant	Voyetra Turtle Beach, Inc.			
Address	44 South Broadway, 4th Floor WHITE PLAINS, NEW YORK 10601 USA			
Manufacturer or Supplier	Voyetra Turtle Beach, Inc.			
Address	44 South Broadway, 4th Floor WHITE PLAINS, NEW YORK 10601 USA			
Product	VelocityOne Wheel Front			
Brand Name	TURTLE BEACH			
Model	VelocityOne RACE			
Additional Model & Model Difference	N/A			
Date of tests	Nov. 07, 2023 ~ Dec. 25, 2023			
KDB 447498 D01IEEE C95.1CONCLUSION: The		COMPLY with the test requirement		
Tested by Loren LuoApproved by Glyn HeProject Engineer / EMC DepartmentAssistant Manager / EMC Department				
Project Engineer / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department Assistant Manager / EMC Department				

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FM2311WDG0023-1	Original release	Jan. 15, 2024	

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1. CERTIFICATION

FCC ID:	XGB-231103TW		
PRODUCT:	VelocityOne Wheel Front		
BRAND NAME:	ME: TURTLE BEACH		
MODEL NO.: VelocityOne RACE			
ADDITIONAL NO.:	IONAL NO.: N/A		
APPLICANT:	Voyetra Turtle Beach, Inc.		
STANDARDS:	FCC Part 2 (Section 2.1093)		
	KDB 447498 D01 V06		
	IEEE C95.1		

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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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, $\frac{1}{2} \frac{1}{2} \frac{$

- 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) \cdot 10] mW at > 1500 MHz and \leq 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**.



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)
TX	2402-2480	-28	+-1	-29	-27

The measured conducted Average Power

Mode Frequency		Averaged Power	Averaged Power	
(MHz)		(dBuV/m)	(dBm)	
TX	2480	66.97	-28.26	

Note:

$$E = \frac{\sqrt{30 \ PG}}{d}$$

E =Electric field streng in v/m

V/m=10^{(dBuv/m -120)/20}

P = Power in Watts

G =Antenna gain in dBi

d =Measurement distance in metres

Power ≈ 0.001493 (mW)

 $dBm = 10^* \log_{10}^{(0.001493)} \approx -28.26 (dBm)$

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	-27	5	0.000628	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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