



Test Report No.: FM2502WDG0164



Certificate # 2951.01

## 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 F-RX  |
| Brand Name  | TURTLE BEACH  |
| Model   | VelocityOne F-RX  |
| Additional Model & Model Difference                             | N/A   |
| Date of tests   | Mar 10, 2025 ~ May 12, 2025                                   |
| <input checked="" type="checkbox"/> FCC Part 2 (Section 2.1093) |   |
| <input checked="" type="checkbox"/> KDB 447498 D01 V06          |   |
| <input checked="" type="checkbox"/> IEEE C95.1                  |   |

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

|   |   |
|---|---|
| Prepared by Andrew Sha<br>Project Engineer / EMC Department | Approved by Glyn He<br>Assistant Manager / EMC Department |
|   |   |

Date: May 22, 2025

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## RELEASE CONTROL RECORD

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED  |
|---------------|-------------------|--------------|
| FM2502WDG0164 | Original release  | May 22, 2025 |

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## 1. CERTIFICATION

|                        |                             |
|------------------------|-----------------------------|
| <b>FCC ID:</b>         | XGB-2501FRX                 |
| <b>PRODUCT:</b>        | VelocityOne F-RX            |
| <b>BRAND NAME:</b>     | TURTLE BEACH                |
| <b>MODEL NO.:</b>      | VelocityOne F-RX            |
| <b>ADDITIONAL NO.:</b> | N/A                         |
| <b>APPLICANT:</b>      | Voyetra Turtle Beach, Inc.  |
| <b>STANDARDS:</b>      | FCC Part 2 (Section 2.1093) |
|                        | KDB 447498 D01 V06          |
|                        | IEEE C95.1                  |



## 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>16</sup> where

- $f(\text{GHz})$  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  $\leq 6$  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  $[1 + \log(100/f(\text{MHz}))]$  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  $\frac{1}{2}$  for test separation distances  $\leq 50$  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       | -29                | +2              | -31                   | -27                   |

The measured conducted Average Power

| Mode | Frequency (MHz) | Averaged Power (dBuV/m) | Averaged Power (dBm) |
|------|-----------------|-------------------------|----------------------|
| TX   | 2402            | 66.58                   | -29.91               |

Note:

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

E = Electric field strength in v/m

V/m = 10<sup>(dBuV/m - 120)/20</sup>

P = Power in Watts

G = Antenna gain in dBi

d = Measurement distance in metres

Power ≈ 0.001021 (mW)

dBm = 10 \* log<sub>10</sub>(0.001021) ≈ -29.91 (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                                | 0.000618        | 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.