



RF EXPOSURE REPORT

FCC CFR 47 Part 1.1307

Report No.: CATA10-U7 Rev B RF Exposure Evaluation

Company: Catapult Sports Pty Ltd

Model Name: T7001

RF EXPOSURE REPORT

SAR Exclusion Evaluation

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Model Name: T7001

To: FCC CFR 47 Part 1.1307

Test Report Serial No.: CATA10-U7 Rev B RF Exposure Evaluation

This report supersedes: NONE

Applicant: Catapult Sports Pty Ltd Company
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Issue Date: 13th January 2022

This Test Report is Issued Under the Authority of:

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Catapult Sports T7001 has 2 transmitters

- 1) UWB low power transmitter operating at 3993.6 MHz, 4492.8 MHz, and 6489.6 MHz in the 3100 – 10600 MHz Band.
- 2) BLE radio transmitter operating in the 2400-2483.5 MHz Band.

The device under test is a portable device.

For the purpose of this section, the definition in **1.1307(b) (2)** of this chapter shall apply. A portable device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that the RF source's radiating structure(s) is/are within 20cm of the body of the users body.

Part 1.1307(b) (3) (b) (ii), Determination of the exemption for multiple RF sources if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph **(b)(3)(i)(A)** of this section. Medical implant devices may only use this exemption and that in paragraph **(b)(3)(i)(A)**.

Calculation:

The manufacturer declared a Duty Cycle of 10% during normal operation for the BLE radio; Time averaged Duty Cycle correction factor (DCCF) = $10 \cdot \log(10/100) = -10$ dB.

The following calculations take into account the time average duty cycle correction factor for the BLE radio during normal operation.

Table 1:

Frequency (MHz)	Maximum Power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Time Averaged Power (mW)	Combined Power (mw)	Limit mW
2400.0 - 2483.5 (BLE)	2.03	2.71	4.74	2.978	0.30	0.34	≤1
3993.6	-21.88	1.37	-20.51	0.008			
4492.8	-23.54	4.33	-19.21	0.011			
6489.6	-20.57	6.55	-14.02	0.039	0.04		

Note Only Worst Cases have been recorded

Conclusion

The Catapult Sports T7001 meets the Exposure Guidance requirements per FCC 1.1307(b).



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