

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

75-83 High St, Prahran Melbourne, Victoria 3181

Australia

Issue Date: 13th January 2022

This Test Report is Issued Under the Authority of:

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Title: Catapult Sports Pty Ltd T7001 **To:** FCC CFR 47 Part 1.1307

Serial #: CATA10-U7 Rev B RF Exposure Evaluation

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 is 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) = $10*\log(10/100) = -10$ 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		
3993.6	-21.88	1.37	-20.51	0.008		0.34	≤1
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).

Issue Date: 13th January 2022 Page:

3 of 4





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