



RF EXPOSURE EVALUATION

FCC CFR 47 Part 1.1307

Report No.: CATA18-U28 Rev A RF Exposure Evaluation

Company: Catapult Sports Pty Ltd

Model: RE-V8-SR-V1

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SAR Exclusion Evaluation

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Model: RE-V8-SR-V1

To: FCC CFR 47 Part 1.1307

Report Serial No.: CATA18-U28 Rev A RF Exposure Evaluation

This report supersedes: NONE

Applicant: Catapult Sports Pty Ltd Company
10 Post Office Square, Floor 9
Boston, Massachusetts 02109
USA

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This Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
Fax: +1 (925) 462-0306
www.micomlabs.com



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Catapult Sports RE-V8-SR-V1 has 2 transmitters

1) Two WBT low power transmitters operating at 6489.6 MHz in the 5925 – 7250 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 user.

Part 1.1307(b) (3) Determination of Exemption

(ii), For multiple RF sources: Multiple RF sources are exempt 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)**.

The EUT radiated EIRP was measured at a distance of 1 meter.

The exemption limit of 1 mW EIRP is 104.77 dBuV/m measured at distance of 1m.

The maximum field strength measured for a single WBT device (operating on 99 % duty cycle) at 1 meter is 59.85 dBuV/m.

Worst case with 2 transmitters operating simultaneously at 99 % duty cycle the maximum field strength would be 62.85 dBuV/m.

Conclusion

From above calculations we can see that even without considering the time-averaged power of each source in normal operation (taking into account the transmitters Duty Cycle) the Catapult Sports RE-V8-SR-V1 complies with the 1 mW exemption limits of FCC Part 1.1307(b) (3).



575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com