



MPE/RF EXPOSURE TEST REPORT

FCC CFR 47 Part 1.1307

Report No.: CATA04-U5 SAR EXCLUSION Rev A

Company: Catapult Sports Pty Ltd

Model Name: VA7601

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Model Name: VA7601

To: FCC CFR 47 Part 1.1307

Test Report Serial No.: CATA04-U5 Rev A FCC MPE

This report supersedes: NONE

Applicant: Catapult Sports Pty Ltd Company
75-83 High St Prahran
Melbourne, Victoria 3181
Australia

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This Test 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 VA7601 has 2 transmitters

- 1) UWB low power transmitter operating at 6489.6 MHz in the 4750 – 10600 MHz Band.
- 2) Wifi radio transmitter operating in either the 2400-2483.5 MHz or 5150-5850 MHz Bands.

The manufacturer declared a Duty Cycle of 10% during normal operation for the WiFi radio; Time averaged Duty Cycle correction factor (DCCF) = $20 \cdot \log(10/100) = -20$ dB.

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

Frequency (MHz)	Maximum Power (dBm)	Time Averaged Power (dBm) with DCCF	Maximum Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)
2400.0 - 2483.5 (WiFi)	19.80	-0.2	4.0	3.8	2.398
5150.0 - 5850.0 (WiFi)	11.49	-8.51	7.0	-1.51	0.706
6489.6	-21.09		6.0	-15.09	0.0309

***Duty Cycle Correction Factor (DCCF)**

Reference – FCC KDB 447498 D01 —Evaluation General RF Exposure Guidance v06 Appendix A:

The EUT meets the SAR exemption limits operating in these bands as grayed out in the table below for ≤ 5 mm distance.

SAR Exemption limits for routine evaluation based on frequency and separation distance. (Appendix A)

Frequency (MHz)	At separation distance of					
	≤ 5 mm	10 mm	15 mm	20 mm	25 mm	
≤ 150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Conclusion

The Catapult Sports VA7601 meets the Exposure Guidance requirements per FCC KDB 447498 D01 —Evaluation General RF Exposure Guidance v06 **Appendix A.**

“Exemption Limits for Routine Evaluation — SAR Evaluation” based on the minimum separation distance of $\leq 5\text{mm}$ between the transmitter antennas of the **Catapult Sports VA7601** and user during normal operation.



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