Sports & Wellbeing Analytics Limited PROTECHT™

RF Exposure Analysis

FCC ID: 2AT9A-M0021NA

Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498D01 (v06) Chapter 4.3.1 where the 1-g head or body and 10-g extremity SAR exclusion threshold is defined by the following formula:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- f(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

For the Mouthguard the maximum conducted output power is 9.7dBm + 10% (10.3mW) at 920MHz. Transmit duty cycle is 42%.

Applying the above data using the given KDB 447498 D01 formula, and minimum separation distance of 5mm, the following results:

 $(10.3 \times 0.42 \text{mW} / 5 \text{ mm}) \times \sqrt{0.92 \text{ GHz}} = 0.83 \text{ (i.e.: } \le 3.0 \text{ for } 1\text{-g SAR})$

Conclusion

This demonstrates the Mouthguard meets the criteria for 1-g head SAR test exemption.

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