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RF Exposure Analysis

FCC ID: 2AO4FM010-1

Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498 D01 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:

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

- 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 M010 Bluetooth operation the maximum conducted output power is 4.5 dBm (2.82mW).

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

$$(2.82\text{mW} / 5 \text{ mm}) \times \sqrt{2.4 \text{ GHz}} = 0.87 \text{ (i.e.: } \leq 7.5 \text{ for 10-g extremity SAR)}$$

This demonstrates the M010 meets the criteria for 10-g extremity SAR test exemption.

Conclusion

The M010 with minimum antenna separation is confirmed OK for handheld/ body worn usage.

Signature:  _____ Date: 25th June 2018 _____

R M Stephens CEng