

RF Exposure Analysis**FCC ID: 2AUMV-VRRPI0W****10/09/2019****Analysis for FCC portable use – Single Board Computer**

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

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

The maximum conducted output power for the device is 17 dBm (50.1mW).
(Data taken from publicly available RF exposure analysis for FCC ID: 2ABCB-RPI0W as FCCID: 2AUMV-VRRPI0W underwent a FCC Change of ID from FCC ID: 2ABCB-RPI0W)

Applying the above data, using the given formula in KDB 447498 D01, and the minimum separation distance of 30mm , the following results:

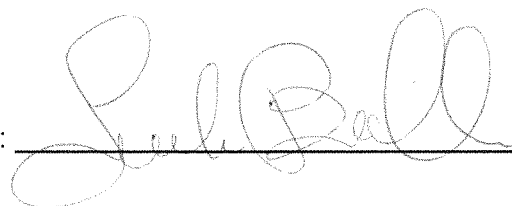
$(50\text{mW} / 30 \text{ mm}) \times \sqrt{2.45 \text{ GHz}} = 2.6$ (i.e.: ≤ 3.0 for 1-g SAR)

This demonstrates the device meets the criteria for 1-g head/ body SAR test exemption.

Conclusion

The product is compliant with the required SAR test exclusion requirements and can be used in this Portable configuration.

Signature: _____



Date: _____

