

July 25, 2018

RF Exposure Analysis

FCC ID: BDZ319PHB

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:

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

- 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 319 Personal Help Button, the maximum conducted output power is +5.0 dBm (3.16mW).

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

$$(3.16\text{mW} / 5 \text{ mm}) \times \sqrt{0.319 \text{ GHz}} = 0.36 \text{ (i.e.: } \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR)}$$

This demonstrates the 319 Personal Help Button meets the criteria for 1-g head/ body and 10-g extremity SAR test exemption.

Conclusion

The 319 Personal Help Button can be used for Portable (or Mobile) usage.



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