



## RF Exposure Analysis

FCC ID: 2AG7Q-CS-TAG1

## Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498 D01, 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)] \* [ $\sqrt{f(\text{GHz})}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

- $f(\text{GHz})$  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 CS Tag1 the maximum conducted output power is -8.0dBm (0.16mW) at 2.4GHz

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

$$(0.16\text{mW} / 5 \text{ mm}) \times \sqrt{2.4 \text{ GHz}} = 0.05$$

(i.e.:  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR)

## Conclusion

This demonstrates the CS\_Tag1 meets the criteria for 1-g head / body and 10-g extremity SAR test exemption.

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