

7.10 RF Exposure Considerations (KDB 447498 D01)

The 1 g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by;

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

- $f_{\text{(GHz)}}$  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.
- When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied.

| Band         | Freq. (MHz) | Max. Power |      | Distance (mm) | Threshold | Test Exclusion |
|--------------|-------------|------------|------|---------------|-----------|----------------|
|              |             | (dBm)      | (mW) |               |           |                |
| Bluetooth LE | 2480        | 3.89       | 2    | < 5           | 0.6       | YES            |

The minimum user separation distance was assumed to be 0 mm for the purpose of the SAR exclusion calculations.

**Conclusion:**

The device qualifies for the Standalone SAR test exclusion because the computed value is  $< 3$ .