



## RF Exposure Evaluation

According to KDB 447498 and part 2.1093, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

## Manufacturing tolerance

GFSK			
Channel	Channel 00	Channel 39	Channel 78
Target (dBm)	0	1.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ DQPSK			
Channel	Channel 00	Channel 39	Channel 78
Target (dBm)	0	1.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

## Evaluation Result

### For Bluetooth

Max Power(including tune-up tolerance) (dBm)	Max Power(including tune-up tolerance) (mW)	Frequency (MHz)	Min. distance(mm)	Calc. thresholds	limit
3.0	1.9953	2402	5	0.6185	3.0

## Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06, No SAR is required.