

RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 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.

We use 5mm as separation distance to calculated.

Type	Channel	Measured Output power (dBm)	Tune-up Power (dBm)	Max tune-up power (dBm)	Calculation Result	Limit 1g SAR
GFSK	00	-2.759	-3 ± 1	-2	0.195	3
	39	-2.913	-3 ± 1	-2	0.197	
	78	-3.290	-3 ± 1	-2	0.198	

Conclusion:

For the max result : $0.198 \leq 3.0$ for 1g SAR, No SAR is required.