

1. Reference

According to 447498 D01 General RF Exposure Guidance v06

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 (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

2. Result

- 1) According to the output power measurement, and the tune-up statement by manufacturer, the calculated value can obtained.

Test Frequency (MHz)		Minimum Separation Distance (mm)	Max. Output Power (dBm)	Tune up(dBm)	Output Power with tune up (dBm)	Output Power (mW)	calculated value	exclusion thresholds
BT	2402	5.00	-4.18	± 0.2	-3.98	0.40	0.12	3
BLE	2480	5.00	-8.89	± 0.2	-8.69	0.14	0.04	3
802.11a	5745	5.00	7.30	± 0.2	7.50	5.62	2.69	3
802.11b	2412	5.00	8.85	± 0.2	9.05	8.04	2.50	3
802.11g	2412	5.00	8.95	± 0.2	9.15	8.22	2.55	3
802.11n20	2412	5.00	9.01	± 0.2	9.21	8.34	2.59	3
802.11n20	5745	5.00	7.15	± 0.2	7.35	5.43	2.60	3
802.11n40	5745	5.00	7.19	± 0.2	7.39	5.48	2.63	3
802.11ac20	5745	5.00	7.14	± 0.2	7.34	5.42	2.60	3
802.11ac40	5745	5.00	7.27	± 0.2	7.47	5.58	2.67	3
802.11ac80	5775	5.00	6.69	± 0.2	6.89	4.89	2.35	3

Note:Antenn gain is 0 dBi.

- 2) .Conclusion: No SAR is required.