

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 AV for WIFI and PK for BT measurement in the EMI test report, and the tune-up statement by manufacturer, the calculated value can obtain.

Test Frequency (MHz)		Minimum Separation Distance (mm)	Max. Output Power (dBm)	Output Power with tune up (dBm)	Output Power (mW)	calculated value	exclusion thresholds
WIFI	2437	5.00	9.440	9.5	8.91	2.8	3
BT3.0	2480	5.00	2.269	3	2.00	0.6	3
BLE	2440	5.00	-1.187	0	1.00	0.3	3

Remark: The WLAN and BT sharing a single antenna, and can't transmit signal simultaneously.

- 2) .Conclusion: No SAR is required.