

RF Exposure Report

FCC ID: 2AF7A-A60

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.
- (1) Clause 4.3: General SAR test reduction and exclusion guidance
- Sub clause 4.31: Standalone SAR test exclusion considerations
- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:
- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})]*[\sqrt{f_{(\text{GHz})}}]}{\leq 3.0 \text{ for 1-g SAR}}$$
- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})]*[\sqrt{f_{(\text{GHz})}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

Bluetooth V4.2: 2402~2480 MHz
(BLE)GFSK, Pi/4-QDPSK, 8-DPSK

Test separation: 5mm					
Protocol	Channel Frequency (MHz)	Output Power Conducted Power (dBm)	Output Power Conducted Power (mW)	Calculation Value (mW/mm²)	Limit (mW/mm²)
GFSK	2402	4.19	2.62	0.813	3.0
Pi/4-QDPSK	2402	5.29	3.38	1.048	3.0
8-DPSK	2402	5.57	3.61	1.118	3.0
BLE	2402	0.86	1.22	0.378	3.0

Then SAR evaluation is not required

***** END OF REPORT *****