

RF Exposure Report

FCC ID: 2APRQ-BH002

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:

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

$$\leq 3.0 \text{ for 1-g SAR}$$

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

$$\leq 7.5.0 \text{ for 10-g SAR}$$

Bluetooth V4.2+EDR: 2402~2480 MHz

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/mm ²)	Limit (mW/mm ²)
GFSK	2441	0.87	1.22	0.382	3.0
Pi/4-QDPSK	2441	-0.33	0.93	0.290	3.0
8-DPSK	2441	-0.42	0.91	0.284	3.0

Then SAR evaluation is not required

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