

**Standalone SAR Exclusion for 13.56 MHz Transmitter:**

This device FCC ID: 2APJVOPAS02 is excluded from SAR testing by the following justification

The maximum power that the transmitter is capable of is 0.001 mW\* Using formula G.1 from ANSI C63.10: 2013

Using the following formula from section 4.3.1 of KDB 447498

$$[(\text{Power limit for } <50\text{mm}) + (\text{separation distance} - 50\text{mm}) * 10] * [1 + \log(100/f(\text{MHz}))] * 1/2$$

Max Peak Power (dBm)	Min Separation distance (mm)	Frequency (MHz)
-32.78	<50	13.56

Power Threshold
442.880436

The maximum EUT power is less than the Power Threshold

**Standalone SAR Exclusion for pre-certified BLE Transmitter:**

This device FCC ID: 2APJVOPAS02 is excluded from SAR testing by the following justification

The maximum power that the transmitter is capable of is 0.06 mW Applied duty cycle? no

Using the following formula from section 4.3.1 of KDB 447498 at test separation distances ≤ 50 mm

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}]$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Max Peak Power (dBm)	Min Separation distance (mm)*	Frequency (Ghz)
-12.14	5	2.48

Value
0.02

\*"Value" shall be ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

< 50mm power limits for above frequency and distance	
<u>1-g power limit</u>	<u>10-g power limit</u>
95	238

**Combined SAR(using formula from KDB 447498 section 4.3.2(b)(1)):**

	Combined SAR				
	power	distance	freq		
Radio 1(BLE)	0.06	5	2.48	0.001008	W/kg
Radio 2(RFID)	0.000528	5	0.01356	6.56E-07	W/kg
				0.001009	