

FCC ID: 2BL9C-G4

RF EXPOSURE EVALUATION **EUT Specification**

EUT	Smart lock		
Model Name	G2, G4		
Frequency band (Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz		
	☐ WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz		
	☐ WLAN: 5.745GHz ~ 5825GHz		
	⊠ Others(13.56MHz)		
Device category	⊠ Portable (<20cm separation)		
	☐ Mobile (>20cm separation)		
	☐ Others		
Antenna diversity	⊠ Single antenna		
	☐ Multiple antennas		
	☐ Tx diversity		
	☐ Rx diversity		
	☐ Tx/Rx diversity		
Max. output power	46.49 dBuV/m (-48.768dBm)(0.000013mW)		
Evaluation applied	⊠MPE Evaluation		
	☐ SAR Evaluation		

Standard Requirement

Portable Device

According to §15.247(i) and §1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance V6, section 4.3.1.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, ¹⁶ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 17
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.









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Measurement Result

Channel Frequency (GHz)	Max Output power (dBm)	Max tune-up tolerance Output power (dBm)	Max Output power (dBm)	Max Output power (mW)
0.01356	-48.768	-48.768 ± 1	-47.768	0.000017

power=Transmitter Spurious-95.2= 46.49 -95.2= -48.768dBm

According to KDB447498 D01 V6, when the aggregate of the maximum power available at the antenna port and radiating structures of an implanted transmitter, under all operating circumstances, is ≤ 1.0 mW, SAR test exclusion may be applied.

The SAR measurement is not necessary.

