

FCC RF Exposure

EUT Description: Smart lever lock with fingerprint

Model No.: B01 PRO, B201 PRO, B202 PRO, B203 PRO, B204PRO, B205 PRO, B01 PRO, B02 PRO, B03 PRO, B04 PRO, B05 PRO

FCC ID: 2A97U-B01PRO

Equipment type: Portable Device

According to KDB 447498 and part 2.1093, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numeric simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances < 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

$$\text{EIRP} = \text{E}_{\text{Meas}} + 20 \log(d_{\text{meas}}) - 104.7$$

EIRP is the equivalent isotropically radiated power,

E_{Meas} in dBm is the field strength of the emission at the measurement distance, in dB u V/m

d_{meas} is the measurement distance, in m

Field strength(dBuV/m)	EIRP(dBm)	Max tune-up(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
92.50	-2.6576	0.5423	2402	5	0.1681	3.0
91.16	-3.9976	0.3963	2440	5	0.1228	3.0
93.76	-1.3976	0.7248	2480	5	0.2247	3.0

So SAR test is not required