

FCC RF Exposure

EUT Description:Smart Knob Lock with Fingerprint and Keypad

Model No.: 02、K03、K04、K05、K06、K07、K08

FCC ID: 2A97U-K020305060708

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 numericasimulation, is not required when the corresponding SAR Test Exclusion Thresholocondition(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 testexclusion thresholds are determined by the following:

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

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

EIRP is the equivalent isotropically radiated power,

E_{Meas} in dBmis 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
93.61	-1.5476	0.00070	2402	5	0.217	3.0
93.52	-1.6376	0.00069	2440	5	0.214	3.0
91.82	-3.3376	0.00046	2480	5	0.146	3.0