

FCC RF Exposure

EUT Description: **Smart Toothbrush**

Model No.: **U6, UA, U1, U2, U3, U5, U7, U8, S1, S2, S3, S5, S6, S7, K1, K2, K3 , K5 , K6 , K7, D1,**

D2, D3, D5, D6, D7,E1, E2, E3, E5, E6, E7, U series, S series, K series, D series, E series

FCC ID: **2AU6U-U6**

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

Where:

$$\text{Result} = P/D \cdot \sqrt{f}$$

F= the RF channel transmit frequency in GHz

P=Maximum turn-up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

2.4GWIFI

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
11b	7.70	7±1(8)	6.31	5	1.980	3.0	Pass
11g	6.78	6±1(7)	5.01	5	1.572	3.0	Pass
11n/HT20	6.65	6±1(7)	5.01	5	1.572	3.0	Pass
11n/HT40	6.30	6±1(7)	5.01	5	1.572	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK1910252683-E,
antenna gain=0dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 1.980 which is ≤ 3 , SAR testing is not required.

Note: Exclusion Thresholds Results= $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance=5mm