## FCC RF Exposure

EUT Description: SATURN LED LIGHT Model No.: WL-STRLEDSP-WHT FCC ID: 2BBPLWLSTRLEDSP

## 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:

[(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

Where:

Result=P/D\*√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

Frequency	Output	Tune Up	Max Tune	Min test	Result	Limit	SAR Test
(MHz)	power	Power	Up power	separation		(mW/cm <sup>2</sup> )	Exclusion
	(dBm)	(dBm)	(dBm/mW)	distance			
				(mm)			
2402	1.58	1±1(2)	1.585	5	0.491	3.0	Pass
Note:							
PK Output power= conducted power.							
Conducted power see the test report HK2411016463-E, antenna gain=1.9dBi							

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.491 which is  $\leq$  3, RF Exposure testing is not required.

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

 $f_{\rm (GHz)}\, is$  the RF channel transmit frequency in GHz Distance=5mm