## FCC RF Exposure

EUT Description: keyboard

Model No.: KG991W FCC ID: 2A9SC-KG991W

## 1. Limits

According to KDB 447498 D04 General RF Exposure Guidance v01 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

## 2402MHz:

EIRP(dBm)=79.91(dBuV/m)-95.2=-15.29(dBm)

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separati on distance mm	Result	Limit	SAR Test Exclusion
2.4GTX	-15.29	-15±1(-14)	0.040	5	0.012	3.0	Pass
BLE	2.34	2±1(3)	1.995	5	0.628	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK2310244958-1E/2E, antenna gain=3.85dBi

Per KDB 447498 D04, 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 0.628 which is<= 3, SAR testing is not required.

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

f(GHz) is the RF channel transmit frequency in GHz

Distance=5mm