RF Exposure Evaluation

FCC ID: 2AFIH-2930

1. Client Information

Applicant	:	Brand New Days Limited
Address	:	Flat B, 6/F, Tong Yuen Factory Building, 505 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong
Manufacturer	:	Shenzhen Gtide Technology Co.,Ltd
Address	:	5th Building C, 6 Block, Dongcai Industrial Zone, Gushu,Baoan District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Folding wireless keyboard	
Models No.	:	2930	
Brand Name	:	X	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	Bluetooth: -11.89 dBm(GFSK)
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK (1 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V 110mAh Li-ion Battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

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SAR Test Exclusion Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.**
   (1) Clause 4.3: General SAR test reduction and exclusion guidance
   Sub clause 4.31: Standalone SAR test exclusion considerations
   1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. **Calculation:**

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-11.89	±0.5	0.073	0.023	**3.0**
2.441	-12.01	±0.5	0.071	0.022	**3.0**
2.480	-12.92	±0.5	0.057	0.018	**3.0**

So standalone SAR measurements are not required.