

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE151421

1 of 2

Page:

# RF Exposure Evaluation FCC ID: 2AJ4IIGK-011

## 1. Client Information

Applicant	1	Igloohome Pte Ltd			
Address	:	#03-25, Block B, 1557 Keppel Road, Singapore, S089066			
Manufacturer		Smlpretty Technology Co., Limited			
Address		4F-J Commercial Office Building Haihong industrial area West side of the Xixiang Big road, Xixiang street, Baoan District, Shenzhen City, Guangdong Province, China			

## 2. General Description of EUT

EUT Name	:	igloohome Smart Keybox				
Models No.		IGK-01.1, IGK1-C2A4P2-xxxxx (The"xxxxx"can be 00000~99999 denote different production sequence)				
Model Difference	-5	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.				
Product Description		Operation Frequency:	Bluetooth 4.1(BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 4.1(BLE): 40 channels see note(3)			
		RF Output Power:	2.986 dBm Conducted Power			
		Antenna Gain:	0dBi PCB Antenna			
		Modulation Type:	GFSK			
		Bit Rate of Transmitter:	1Mbps(GFSK)			
Power Supply	:	DC power by AAA battery.				
Power Rating		DC 4*1.5V AAA battery.				
Connecting I/O Port(S)		Please refer to the User's Manual				

#### Note:

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



### SAR Test Exclusion Calculations

- 1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.
  - (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
    - 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)]\*[√f<sub>(GHz)</sub>] ≤3.0 for 1-g SAR [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]\*[√f<sub>(GHz)</sub>] ≤7.5.0 for 10-g SAR

#### 2. Calculation:

Test separation: 5mm											
BLE (GFSK)											
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshol d Value					
2.402	2.986	3±1	4	2.512	0.779	3.0					
2.442	2.310	2±1	3	1.995	0.624	3.0					
2.480	1.209	1±1	2	1.585	0.499	3.0					

So standalone SAR measurements are not required.

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