RF Exposure Evaluation

FCC ID: 2AJ4IIGK-011

1. Client Information

Applicant	:	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	:	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.

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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 v06.**
   (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						
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	Threshold 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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