Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE177600 Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AYNF-KANG

1. Client Information

Applicant		Beijing Naolu Technology Co., Ltd	
Address		Room 704-1, floor 7, Building 1, No. 10 caihefang Road, Haidian District, Beijing, China	
Manufacturer	9	Dongguan Syntheticplastic Electronics Co. LTD	
Address	Ŀ	No.9-10, Laofu House, Huangwu Village, Dongkeng Town, Dongguan City, Guangdong Province, China	

2. General Description of EUT

EUT Name	?	KANG SMART SLEEP		
Model(s) No.	:	KANG II		
Model Different	:			
Product Description		Operation Frequency:	Bluetooth V4.2(BT): 2402~2480 MHz	
		Number of Channel:	Bluetooth(BT): 79 Channels Bluetooth(BLE): 40 Channels	
		Max Peak Output Power:	Bluetooth: 2.578dBm(8-DPSK)	
		Antenna Gain:	3 dBi PCB Antenna	
DE TOUR		Modulation Type:	GFSK π/4-DQPSK 8-DPSK BLE (1Mbps)	
Power Supply	:	Input: Output DC 5V DC 3.7V by 600mAh Li-ion battery		
Software Version		1.0.3		
Hardware Version		V1.0.3		

Remark: The antenna gain and adapter provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab.

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

TB-RF-074-1. 0



Report No.: TB-MPE177600

Page: 2 of 3

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)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



Report No.: TB-MPE177600

Page: 3 of 3

2. Calculation:

l est sepa	ration: 5mm				1	111
		I	Bluetooth Mode (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	0.073	0±1	1	1.259	0.390	3.0
2.441	-0.167	0±1	1	1.259	0.393	3.0
2.480	-0.790	0±1	1	1.259	0.397	3.0
	MIS S	Blue	etooth Mode (π/4-DQP	SK)		190
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	2.321	2±1	3	1.995	0.618	3.0
2.441	2.125	2±1	3	1.995	0.623	3.0
2.480	1.513	1±1	2	1.585	0.499	3.0
		В	luetooth Mode (8-DPS)	9		
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	2.578	2±1	3	1.995	0.618	3.0
2.441	2.400	2±1	3	1.995	0.623	3.0
2.480	2.186	2±1	3	1.995	0.628	3.0
		19.1	BLE Mode (1Mbps)	THU .		
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	0.089	0±1	1	1.259	0.390	3.0
2.442	0.743	0±1	1	1.259	0.393	3.0
2.480	0.841	0±1	1	1.259	0.397	3.0

Simultaneous Transmissi	Total Calculation			
Bluetooth Mode	BLE Mode	Value	Limit	
0.0841	0.0531	0.1372	1.0	

Note: The sample support one BT modular and BLE modular, they supports difference antenna, need consider simultaneous transmission;

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

----END OF REPORT----