Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2A4RO-K6

1. Client Information

Applicant		Shenzhen Amesra Technology Co., Ltd.			
Address		Room 406, Building B, Enterprise Business Network Maker Center, Huarong Road, Gaofeng Community, Dalang Street, Longhua Distric Shenzhen, China			
Manufacturer	:	Shenzhen Amesra Technology Co., Ltd.			
Address	Room 406, Building B, Enterprise Business Network Maker Center, Huarong Road, Gaofeng Community, Dalang Street, Longhua District Shenzhen, China				

2. General Description of EUT

EUT Name	:	Bluetooth Adapter				
Model(s) No.	:	K6, K9, K10, K12, K13, K15, K16, K18, K19, K20, K21, K90				
Model Different	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is that names and appearance.				
Product Description		Operation Frequency:	Bluetooth 5.0(BT): 2402~2480 MHz			
		Number of Channel:	Bluetooth: 79 Channels			
		RF Output Power:	GFSK: -6.32dBm π /4-DQPSK: -5.59dBm			
		Antenna Gain:	-0.58dBi PCB Antenna			
		Modulation Type:	GFSK, π/4-DQPSK			
Power Supply	:	Input: DC 5V 500mA				
Software Version	E • •	V1.3				
Hardware Version		K6-V01				

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

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 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)]*[$\sqrt{f_{(GHz)}}$] $\, \leqslant \! 3.0$ 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



2. Calculation:

		BI	uetooth 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	-6.32	-6±1	-5	0.3162	0.0990	3.0
2.441	-6.6	-6±1	-5	0.3162	0.0990	3.0
2.480	-6.59	-6±1	-5	0.3162	0.0990	3.0
<u> </u>	William -	Bluet	tooth Mode (π/4-DQPS	SK)		
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	-5.59	-5±1	-4	0.3981	0.1246	3.0
2.441	-5.85	-5±1	-4	0.3981	0.1246	3.0
2.480	-5.97	-5±1	-4	0.3981	0.1246	3.0

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.

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