

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation *FCC ID: 2AWNK-VM300RX*

1. Client Information

Applicant	:	Shenzhen Apeman Innovations Technology Co., Ltd.		
Address	3	1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, CHINA		
Manufacturer		Shenzhen Apeman Innovations Technology Co., Ltd.		
Address	: 1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, CHINA			

2. General Description of EUT

EUT Name	:	Baby Monitor					
Models No.	:	VM300RX, VM300, VM300S, VM430, VM430S, VM500, VM510, VM550, VM200, VM200S, BM24, BM32, BM24S, BM32S					
Model Different	-	All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance.					
		Operation Frequency:	2406MHz~2475MHz				
Product Description		Number of Channel:	2.4G: 24 Channels				
		Max Peak Output Power:	: 8.446dBm				
		Antenna Gain: 3dBi Internal Antenna					
2 2 6		Modulation Type:	GFSK (4Mbps)				
Power Rating	:	Adapter (TPQ-236A050100UW01) Input: 100-240V~, 50/60Hz, 0.3A Output: DC 5V1A DC 3.7V by 930mAh Li-ion battery					
Software Version	:	VM300-RX-Voger-V1.0					
Hardware Version	:	VM300RX-V01					

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

TB-RF-074-1.0

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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
 - 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_(GHz)] ≤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

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2. Calculation:

Test separation: 5mm 2.4G Mode										
2.406	8.301	8±1	9	7.943	2.464	3.0				
2.442	8.446	8±1	9	7.943	2.482	3.0				
2.475	8.079	8±1	9	7.943	2.499	3.0				

So the worst RF Exposure Evaluation is calculated as 2.499< *limit 3.0*. 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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