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Maximum Permissible Exposure Evaluation FCC ID: 2AF2R-63TX

1. Client Information

Applicant	i	Shenzhen Videotimes Technology Co.,Ltd			
Address		Room 2106, Building 11, Tianan Yungu Phase II(Plot of Land 02-08), Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong. China.			
Manufacturer	3	Shenzhen Videotimes Technology Co.,Ltd			
Address	Room 2106, Building 11, Tianan Yungu Phase II(Plot of Land 02-08), Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong. China.				

2. General Description of EUT

EUT Name		2.4GHz Digital Wireless Video Baby Camera			
Models No.		HB6351, HB6351TX, HB6351-2, FK5163, FK5163-2, FK5163TX, BBM810, BBM810-2, BBM810TX, HB6352, HB6352-2, HB6352TX, VT502, VT502-2, VT502TX, BBM811, BBM811-2, BBM811TX, HB6251, HB6251-2, HB6251TX, JA2216, JA2216-2, JA2216TX, BBM805, BBM805-2, BBM805TX, HB6252, HB6252-2, HB6252TX, BL9052, BL9052-2, BL9052TX, BBM806, BBM806-2, BBM806TX, VV6052, VV6052-2, VV6052TX			
Model Difference		All these models are identical in the same PCB layout and electrical circuit, the only difference is that names.			
Product Description		Operation Frequency: Number of Channel: RF Output Power: Antenna Gain:	2.4G: 2412MHz~2469MHz 20 channels GFSK:16.382dBm 2dBi Dipole Antenna		
Power Rating	:	Input: 100-240V~, 50/60Hz 0.2A Output: 5V-1A			
Software Version	:	1.2			
Hardware Version	:	1.0			
Connecting I/O Port(S)		Please refer to the User's Manual			
Remark		The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.			



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MPE Calculations for 2.4G

1. Antenna Gain:

Dipole Antenna:2.0dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Worst Maximum MPE Result								
Mode	N тх	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
ALL W		2412	14.349	14±1	15	2.0	20	0.0100
2.4G	1	2442	15.663	16±1	17	2.0	20	0.0158
The Court		2469	16.382	16±1	17	2.0	20	0.0158

Note:

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

⁽¹⁾ N_{TX}= Number of Transmit Antennas



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5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 2.4G:2412~2469 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0158 mW/cm² < limit 1mW/cm²**. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT----