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Maximum Permissible Exposure Evaluation

FCC ID: 2AF2R-HB68TX

1. Client Information

Applicant	?	Shenzhen Videotimes Technology Co.,Ltd		
Address	1	Room 601, Building B, Union Financial Building Fubao Street, Futian Free Trade Zone, Shenzhen, China		
Manufacturer	÷	Shenzhen Videotimes Technology Co.,Ltd		
Address		Room 601,Building B,Union Financial Building Fubao Street,Futian Free Trade Zone,Shenzhen,China		

2. General Description of EUT

EUT Name		2 4GHz Digital Wirel	ess Video Baby Camera		
Models No.		HB68TX, HB6550TX, HB50 Pro TX, HB6850TX			
Model Different		All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.			
Sample ID		20210304-15_1#&20210304-15_2#			
		Operation Frequency:	2412MHz~2469MHz		
Product		RF Output Power:	20.384dBm		
Description		Antenna Gain:	2dBi Dipole Antenna		
	1	Modulation Type:	GFSK		
Power Rating		DC 5V from Adapter (Model:K05S050100U) Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V,1.0A			
Software Version		1.2			
Hardware Version		1.2			
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 WIFI

1. Antenna Gain:

Dipole Antenna: 2dBi.

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:

Mode	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]
2412.0	19.229	19±1	20	2	20	0.0315
2442.0	20.052	20±1	21	2	20	0.0397
2469.0	20.384	20±1	21	2	20	0.0397



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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 GFSK:2412~2469 MHz MPE limit S: 1mW/ cm²

The MPE is calculated as 0.0397mW/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.

----END OF REPORT----