

Maximum Permissible Exposure Evaluation

FCC ID:2AF2R-HB26TX

1. Client Information

| | | |
|---------------------|---|---|
| Applicant | : | 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 | : | 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. | : | HB26, HB26 TX, HB26-2, VV6026, VV6026 TX, VV6026-2, BBM813, BBM813-2, BBM813 TX |
| Model Difference | : | All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name. |
| Product Description | : | Operation Frequency: 2.4G: 2409.5MHz~2468MHz |
| | | Number of Channel: 40 channels |
| | | RF Output Power: GFSK:12.583dBm |
| | | Antenna Gain: 2dBi Monopole Antenna |
| Power Rating | : | Adapter: (Model: K05S050100G) Input: 100-240V~, 50/60Hz 0.2A Output: DC 5.0V, 1.0A |
| Software Version | : | 1.0 |
| 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. |

MPE Calculations for 2.4G

1. Antenna Gain:

Monopole 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 _{TX} | 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] |
| 2.4G | 1 | 2409.5 | 12.583 | 13±1 | 14 | 2.0 | 20 | 0.0079 |
| | | 2439.5 | 12.412 | 12±1 | 13 | 2.0 | 20 | 0.0063 |
| | | 2468 | 12.375 | 12±1 | 13 | 2.0 | 20 | 0.0063 |
| Note: (1) N _{TX} = Number of Transmit Antennas (2) RF Output power specifies that Maximum Conducted Peak Output Power. | | | | | | | | |

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/ cm ²) |
|-----------------------|--------------------------------------|
| 300-1,500 | F/1500 |
| 1,500-100,000 | 1.0 |

For 2.4G:2409.5~2468 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0079 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-----