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Maximum Permissible Exposure Evaluation

FCC ID: VAC-PDWX10

1. Client Information

| Applicant | | SUN HEI (WORLDWIDE) ELECTRONIC CO., LTD |
|--------------|-----|--|
| Address | • | UNIT B, 15/F, WING CHEUNG IND.BLDG 58-70, KWAI CHEONG RD., KWAI CHUNG, N.T. HONGKONG |
| Manufacturer |) [| Xiang Shun Electronic Products Co., Ltd |
| Address | 5 | No.5, Xixing Street, Changan Town, Dongguan City, Guangdong Province, China |

2. General Description of EUT

| EUT Name | | 10 Inch Wi-Fi Digital Picture Frame | | | |
|------------------------|---|--|--|--|--|
| Models No. | | PDWX-1050B, PDWX-1050C, PDWX-1050G | | | |
| Model Different | : | All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name. | | | |
| Product Description | | Operation Frequency: | 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz | | |
| | | Number of Channel: | 802.11b/g/n(HT20):11 channels 802.11n(HT40): 7 channels | | |
| | | RF Output Power: | 802.11b:17.069dBm(MAX) | | |
| | | Antenna Gain: | 1.55dBi PIFA Antenna | | |
| Power Rating | | Adapter(THX-050200KV) Input: 100-240V~, 50/60Hz, 0.65A MAX Output: DC 5V2.0A Adapter(SR-C6050200U2) Input: 100-240V~, 50/60Hz, 0.35A MAX Output: DC 5V2.0A | | | |
| Software Version | 1 | N/A | | | |
| Hardware Version | | BND-RK3126-D916 A1.0 | | | |
| Connecting I/O Port(S) | : | Please refer to the User's Manual | | | |
| Remark | 1 | the evaluation report used the EUT(20210608-07-02#). | | | |

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MPE Calculations for WIFI

1. Antenna Gain:

PIFA Antenna:1.55dBi.

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:

2.4G WiFi

| 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] | Limit of Power Density (mW/ cm ²) (S) |
|---------------|----------------------------------|--------------------------|--------------------------------------|--------------------------|-------------------------|---|---|
| 802.11B | 17.069 | 17±1 | 18 | 1.55 | 20 | 0.01794 | 1 |
| 802.11G | 15.587 | 15±1 | 16 | 1.55 | 20 | 0.01132 | (1)) |
| 802.11N(HT20) | 15.482 | 15±1 | 16 | 1.55 | 20 | 0.01132 | 1 |
| 802.11N(HT40) | 13.548 | 14±1 | 15 | 1.55 | 20 | 0.00899 | 1 |

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 |



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For 2.4WIFI:2412~2462 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.01794** 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----