



Maximum Permissible Exposure Evaluation

FCC ID: 2BMPK-10

Original Grant

Report No.	:	TBR-C-202506-0226-3	
Applicant	:	Shenzhen Vtimes Intelligent Technology Co, Ltd.	
Equipment Under Test (EUT)			
EUT Name	:	10.1 inch Smart Frame	
Model No.	:	VT01001A	
Series Model No.	:	VT01001B, VT01001C, VT01001D, VT01001E, VT01001F, VT01001G	
Brand Name	:	----	
Sample ID	:	HC-C-202506-0226-01-1# & HC-C-202506-0226-01-2#	
Receipt Date	:	2025-06-27	
Test Date	:	2025-06-27 to 2025-08-01	
Issue Date	:	2025-08-01	
Standards	:	FCC Part 2.1091	
Test Method	:	KDB 447498 D01 General RF Exposure Guidance v06	
Conclusions	:	PASS	
		In the configuration tested, the EUT complied with the standards specified above.	
Test By	:	Gold. Zhang	Gold Zhang
Reviewed By	:	Emily	Emily Tang
Approved By	:	Ivan Su	Ivan Su
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.			

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Revision History



1. General Information about EUT

1.1 Client Information

Applicant	:	Shenzhen Vtimes Intelligent Technology Co, Ltd.
Address	:	Room 2104, Building 11, Tianan Yungu Phase II, Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Vtimes Intelligent Technology Co, Ltd.
Address	:	Room 2104, Building 11, Tianan Yungu Phase II, Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	10.1 inch Smart Frame	
Models No.	:	VT01001A, VT01001B, VT01001C, VT01001D, VT01001E, VT01001F, VT01001G	
Model Different	:	All PCB boards and circuit diagrams are the same, the only difference is that colors.	
Product Description	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz	
	Modulation Type:	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM)	
	Antenna Gain:	2.95dBi FPC Antenna	
Power Rating	:	For Adapter 1# (Model: K12E050200U) Input: 100-240V~ 50/60Hz 0.35A Output: 5.0V--2.0A For Adapter 2# (Model: A938-050200W-US1) Input: 100-240V~ 50/60Hz 0.35A Output: 5.0V--2.0A	
Software Version	:	----	
Hardware Version	:	----	

Remark: The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB
RF Power-Conducted	Level Accuracy: Above 1000MHz	± 0.95 dB
Power Spectral Density- Conducted	Level Accuracy: Above 1000MHz	± 3 dB
Occupied Bandwidth	Level Accuracy: 30MHz to 1000 MHz Above 1000MHz	$\pm 3.8\%$
Unwanted Emission- Conducted	Level Accuracy: 30MHz to 1000 MHz Above 1000MHz	± 2.72 dB
Temperature	/	$\pm 0.6^{\circ}\text{C}$
Humidity	/	$\pm 4\%$
Supply voltages	/	$\pm 2\%$
Time	/	$\pm 4\%$



3. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



4. Method of Measurement for FCC

4.1 EUT Operation Condition:

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

4.2 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

4.3 Simultaneous transmission MPE Considerations

According to KDB447498 D01 v06: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 . This means that:

$$\sum \text{ of MPE ratios} \leq 1.0$$



5. Test Result

Worst MPE Result						
Test Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	Max. ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
2.4G b	14.32	14±1	15	2.95	20	0.0124
2.4G g	12.88	13±1	14	2.95	20	0.0099
2.4G n20	12.62	13±1	14	2.95	20	0.0099
2.4G n40	12.52	13±1	14	2.95	20	0.0099

Note: The antenna gain used max. antenna gain

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: 2412~2462MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0124mW / 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 CFR 2.1091 (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 THE REPORT-----

