Maximum Permissible Exposure Evaluation

FCC ID: 2AK4T-SS10TAB

1. Client Information

Applicant	:	Shenzhen Tideway Electronics Co., Ltd
Addres	:	5F,8#Building, Rundongsheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Tideway Electronics Co., Ltd
Address	:	5F,8#Building, Rundongsheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, China
Tel: +86 75526509301 Fax: +86 75526509195

2. General Description of EUT

EUT Name	:	Tablet PC	
Models No.	:	SS10TAB,V10 Octa	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, The only difference is model name for commercial purpose.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Max Output Power:	WIFI: 16.60 dBm
		Antenna Gain:	2dBi FPC Antenna
Power Supply	:	DC power by USB cable. DC power by Li-ion Battery.	
Power Rating	:	DC 5V by USB cable. DC 3.7V by Li-ion Battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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MPE Calculations for WIFI

1. **Antenna Gain:**
   FPC 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]
802.11b	16.60	16±1	17	2	20	0.01580
802.11g	14.89	14±1	15	2	20	0.00997
802.11n (HT20)	14.73	14±1	15	2	20	0.00997
802.11n (HT40)	13.78	13±1	14	2	20	0.00792

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 802.11b/g/n:2412~2462 MHz
MPE limit S: $1mW/cm^2$
The MPE is calculated as ***$0.01580mW/cm^2 < limit\ 1mW/cm^2$***. 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-----