

Maximum Permissible Exposure Evaluation

FCC ID: 2ASV7-PQ1920

1. Client Information

Applicant	:	American Time
Address	:	140 3rd Street South Dassel, MN 55325, USA
Manufacturer	:	Parado Enterprises Co.,Ltd
Address	:	#404, Bld #A, DanLi Industrial Park, 16th KangZheng Rd., NanWan, LongGang, ShenZhen, GuangDong, 518112, China

2. General Description of EUT

EUT Name	:	Dynamic View	
Models No.	:	PQ1920	
Model Different	:	N/A	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		RF Output Power:	802.11b: 17.78dBm 802.11g: 16.76dBm 802.11n (HT20): 16.94dBm
		Antenna Gain:	1.1dBi External SMA Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)
Power Supply	:	AC/DC adapter: Model:M120300B911 Input:AC100-240V, 1.2A, 50/60Hz Output: DC 12V 3A	
Software Version	:	Android 6.0	
Hardware Version	:	V1.1	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

MPE Calculations for WIFI

1. Antenna Gain:

External SMA Antenna: 1.1dBi.

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	17.78	17±1	18	1.1	20	0.01617
802.11g	16.76	16±1	17	1.1	20	0.01285
802.11n (HT20)	16.94	16±1	17	1.1	20	0.01285

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/ cm²

The MPE is calculated as $0.01617\text{mW} / \text{cm}^2 < \text{limit } 1\text{mW} / \text{cm}^2$. 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.

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