Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE153921

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RF Exposure Evaluation FCC ID: 2AL64-WESTGATE

1. Client Information

Applicant: Shenzhen qiuyu Electronic Co.,Ltd

Address: 3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang

town, Bao'an District, Shenzhen, China

Manufacturer : Shenzhen qiuyu Electronic Co.,Ltd

Address: 3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang

town, Bao'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Tablet PC		
Models No.	:	PTV-R78-3288, Westgate Owner Tablet		
Model Difference):	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.		
Product Description	(C+) V-3	Operation Frequency: RF Output Power:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz Bluetooth V4.0(BLE): 2402~2480 MHz 802.11b: 8.47 dBm 802.11g: 8.69 dBm 802.11n (HT20): 8.91 dBm 802.11n (HT40): 8.41 dBm Bluetooth: 1.505 dBm(GFSK) BLE: -3.54 dBm	
		Antenna Gain:	1.4 dBi Integral Antenna	
Power Supply	Ŀ	DC Voltage supplied by AC/DC Adapter DC Voltage supplied by Li-ion battery		
Power Rating	5	AC/DC Adapter (K-T100502000U): Input: AC 100~240V, 50/60Hz, 0.35A. Output: DC 5V, 2.0A. DC 3.7V by 3500mAh Li-ion battery.		
Connecting I/O Port(S)		Please refer to the User's Manual		

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations

1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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2.Calculation:

Test separatio	n: 5mm				1 63	100
	OM.		WiFi Mode(802.11b)	mn s	2	BALL
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.47	8±1	9	7.943	2.467	3.0
2.437	7.85	8±1	9	7.943	2.480	3.0
2.462	6.95	8±1	9	7.943	2.493	3.0
	U.S.	1	WiFi Mode(802.11g)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.52	8±1	9	7.943	2.467	3.0
2.437	8.69	8±1	9	7.943	2.480	3.0
2.462	7.97	8±1	9	7.943	2.493	3.0
FILL		Wi	Fi Mode(802.11n(HT2	0))	ARTIC	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.91	8±1	9	7.943	2.467	3.0
2.437	8.72	8±1	9	7.943	2.480	3.0
2.462	8.48	8±1	9	7.943	2.493	3.0
		Wi	Fi Mode(802.11n(HT4	0))	War and	a b
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	8.41	8±1	9	7.943	2.472	3.0
2.437	8.31	8±1	9	7.943	2.480	3.0
2.452	8.28	8±1	9	7.943	2.488	3.0



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		В	luetooth Mode (GFSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	1.480	1.5±0.5	2	1.585	0.491	3.0
2.441	1.505	1.5±0.5	2	1.585	0.495	3.0
2.480	1.474	1.5±0.5	2	1.585	0.499	3.0
THE	THIN .	Blue	tooth Mode (π/4-DQPS	K)	11/3/2	- 0
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.627	1.5±0.5	2	1.585	0.491	3.0
2.441	0.654	1.5±0.5	2	1.585	0.495	3.0
2.480	0.640	1.5±0.5	2	1.585	0.499	3.0
		Blu	uetooth Mode (8-DPSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.817	1.5±0.5	2	1.585	0.491	3.0
2.441	0.910	1.5±0.5	2	1.585	0.495	3.0
2.480	0.889	1.5±0.5	2	1.585	0.499	3.0
		TO THE	BLE Mode (GFSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-4.115	-4±1	-3	0.501	0.155	3.0
2.442	-3.540	-4±1	-3	0.501	0.157	3.0
2.480	-3.690	-4+1	-3	0.501	0.158	3.0

Test separation: 5mm The worst RF Exposure Evaluation					
WiFi Mode	Bluetooth Mode	Value	Threshold value		
2.493	0.499	2.992	3.0		

Because the WiFi and Bluetooth can be operated simultaneously, So the worst RF Exposure Evaluation is calculated as 2.493+0.499=2.992 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----