

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation *FCC ID: 2AEP6XM-JPG1-2*

1. Client Information

Applicant	: HangZhou XiongMai Technology CO., LTD
Address	: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou, China
Manufacturer	: HangZhou XiongMai Technology CO., LTD
Address	: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou, China

2. General Description of EUT

EUT Name		WarriorG1				
Models No.		XM-JPG1-2, XM-JPG1-2S, XM-JPG1-4, XM-JPG1-4S, G1-2, G1-4S				
Brand Name		XM				
Models Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.				
	CCA	Operation Frequency: WiFi: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz Number of 802.11b/g/n(HT20):11channels				
Product Description	-	Channel: Max Peak Output Power:	802.11n(HT40): 7 channels 802.11b: 9.13 dBm 802.11g: 9.08 dBm 802.11n (HT20): 9.00 dBm 802.11n (HT40): 9.02 dBm			
		Antenna Gain: Modulation Type:	2 dBi PCB Antenna 802.11b: CCK, DQPSK, DBPSK 802.11g: 64-QAM,QPSK,BPSK 802.11n: 64-QAM,16-QAM,QPSK,BPSK			
Power Supply	•	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.				
Power Rating		DC 5.0V by USB cable. DC 3.6V by 3400mAh 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 v05r02.
 - (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations

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- 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)]*[$\sqrt{f_{(GHz)}}$] \leqslant 7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm										
WiFi Mode(802.11b)										
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value					
2.412	9.12	±0.5	9.162	2.846	3.0					
2.437	9.09	±0.5	9.099	2.841	3.0					
2.462	9.13	±0.5	9.183	2.882	3.0					
WiFi Mode(802.11g)										
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value					
2.412	9.01	±0.5	8.933	2.775	3.0					
2.437	9.08	±0.5	9.078	2.834	3.0					
2.462	9.05	±0.5	9.016	2.829	3.0					
WiFi Mode(802.11n(HT20))										
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value					
2.412	8.97	±0.5	8.851	2.749	3.0					
2.437	8.98	±0.5	8.872	2.770	3.0					
2.462	9.00	±0.5	8.913	2.797	3.0					
		WiFi Mode(80	2.11n(HT40))							
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value					
2.422	9.02	±0.5	8.954	2.781	3.0					
2.437	8.99	±0.5	8.892	2.776	3.0					
2.452	8.87	\pm 0.5	8.650	2.714	3.0					

So standalone SAR measurements are not required.