RF Exposure Evaluation

FCC ID: 2AJGR-K60PW19

1. Client Information

Applicant	:	Innertainment Delivery Systems LLC
Address	:	162 Rosa L. Parks Blvd. Suite 1, Nashville TN 37203, USA
Manufacturer	:	IRL Tech Industrial Group Co.,Ltd
Address	:	3/F, Building C, No. 52 Huangpu Road, Shangliao Community, Shajing Street, Boan District, Shenzhen, China

2. General Description of EUT

EUT Name	:	MID	
Models No.	:	K60PW19	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz	
		Number of Channel:	802.11b/g/n(HT20):11 channels **see note(3)**
		RF Output Power:	802.11b: 9.19 dBm 802.11g: 9.08 dBm 802.11n (HT20): 9.07 dBm
		Antenna Gain:	1.26 dBi FPC Antenna
		Modulation Type:	802.11b: CCK, QPSK, BPSK 802.11g: OFDM 802.11n: OFDM
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC Voltage supplied from Adapter. DC power by Li-ion Battery.	
Power Rating	:	AC/DC Adapter: Input: 100~240V, 50/60Hz, 0.4A Output: 5.0V, 2A DC 3.7V by 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.

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

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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤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	9.19	±0.5	9.311	2.892	**3.0**
2.437	9.17	±0.5	9.268	2.894	**3.0**
2.462	9.18	±0.5	9.290	2.915	**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	9.08	±0.5	9.078	2.820	**3.0**
2.437	9.07	±0.5	9.057	2.828	**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	9.04	±0.5	8.995	2.794	**3.0**
2.437	9.06	±0.5	9.036	2.821	**3.0**
2.462	9.07	±0.5	9.057	2.842	**3.0**

So standalone SAR measurements are not required.