

# 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

<b>EUT Name</b>	:	MID
<b>Models No.</b>	:	K60PW19
<b>Model Difference</b>	:	N/A
<b>Product Description</b>	:	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
	:	
<b>Power Supply</b>	:	DC Voltage supplied from Adapter. DC power by Li-ion Battery.
<b>Power Rating</b>	:	AC/DC Adapter: Input: 100~240V, 50/60Hz, 0.4A Output: 5.0V, 2A DC 3.7V by Li-ion Battery.
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

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



## 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  $\leq 5$  mm are determined by:

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

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

**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.**