

RF Exposure Evaluation

FCC ID: 2AJGR-K60PW13

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.	:	K60PW13
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: 9.27 dBm 802.11g: 9.14 dBm 802.11n (HT20): 9.12 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.

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:

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

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

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	9.23	± 0.5	9.397	2.919	3.0
2.437	9.27	± 0.5	9.484	2.961	3.0
2.462	9.21	± 0.5	9.354	2.935	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	9.09	± 0.5	9.099	2.826	3.0
2.437	9.12	± 0.5	9.162	2.861	3.0
2.462	9.14	± 0.5	9.204	2.889	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	9.11	± 0.5	9.141	2.839	3.0
2.437	9.09	± 0.5	9.099	2.841	3.0
2.462	9.12	± 0.5	9.162	2.875	3.0

So standalone SAR measurements are not required.