

RF Exposure Evaluation

FCC ID: OI2Q712

1. Client Information

Applicant : ILIFE TECHNOLOGY(HK) LIMITED
Address : 3rd Floor, Bld. 3, Lijincheng Industrial Park, The East of Gongye Road, Longhua, Shenzhen, China
Manufacturer : ILIFE TECHNOLOGY(HK) LIMITED
Address : 3rd Floor, Bld. 3, Lijincheng Industrial Park, The East of Gongye Road, Longhua, Shenzhen, China

2. General Description of EUT

EUT Name	:	MID
Models No.	:	Q712
Model Difference	:	N/A
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11b/g/n(HT40): 2422MHz~2452MHz
	:	Number of Channel: 802.11b/g/n(HT20):11 channels 802.11b/g/n(HT40): 7 channels
	:	Max Peak Output Power: 802.11b: 9.34 dBm 802.11g: 9.46 dBm 802.11n (HT20): 9.13 dBm 802.11n (HT40): 9.39 dBm
	:	Antenna Gain: 0 dBi Integral Antenna
	:	Modulation Type: 802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM
Power Supply	:	USB Charging from PC DC power supplied by AC/DC Adapter DC Voltage supplied from Li-Polymer battery.
Power Rating	:	USB DC 5V form PC. AC/DC Adapter(BY-M10-0502000): Input: AC 100~240V 50/60Hz Output: DC 5V 2A DC 3.7V 3000mAh from 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

MPE 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

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 50 mm are determined by:

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

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

Calculation:

The maximum power is 9.46 dBm(8.831 mW) @2.437GHz

Separation Distance: 5mm

For 1-g SAR Result: $(8.831 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.437(\text{GHz})}] = 2.757 < 3.0$ for 1-g SAR

So standalone SAR measurements are not required.