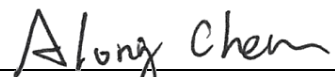


# FCC RF Exposure Report

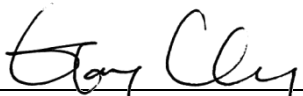
**FCC ID** : SQG-60SIPT  
**Equipment** : 802.11 ac/a/b/g/n + Bluetooth 4.2 module  
(please refer to section 1.1.1 for more details.)  
**Model No.** : ST60-SIPT  
(please refer to section 1.1.1 for more details.)  
**Brand Name** : Laird Technologies  
**Applicant** : Laird Technologies  
**Address** : W66N220 Commerce Court, Cedarburg,  
Wisconsin 53012, USA  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : Apr. 07, 2017  
**Tested Date** : Apr. 12 ~ May 10, 2017

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager



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## Release Record

| Report No. | Version | Description        | Issued Date   |
|------------|---------|--------------------|---------------|
| FA740701   | Rev. 01 | Initial issue      | Jul. 13, 2017 |
| FA740701   | Rev. 02 | Revised model name | Jul. 21, 2017 |

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

The following models are provided to this EUT.

| Brand Name                                                                                                                                  | Model Name | Product Name                                      | Description        |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------|--------------------|-----------------------|
| Laird Technologies                                                                                                                          | ST60-SIPT  | 802.11 ac/a/b/g/n + Bluetooth 4.2 module          | SIPT only          | For marketing purpose |
|                                                                                                                                             | SU60-SIPT  |                                                   |                    |                       |
|                                                                                                                                             | ST60-2230C | 802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module | with carrier board |                       |
|                                                                                                                                             | SU60-2230C |                                                   |                    |                       |
| ✦ The above models, model ST60-2230C was selected as a representative one for the final test and only its data was recorded in this report. |            |                                                   |                    |                       |

## 2 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

### 2.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

| Frequency Range (MHz) | Power Density (mW /cm <sup>2</sup> ) | Averaging Time (minutes) |
|-----------------------|--------------------------------------|--------------------------|
| 300~1500              | F/1500                               | 30                       |
| 1500~100000           | 1.0                                  | 30                       |

### 2.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

### 2.3 MPE EVALUATION RESULTS

| Frequency Range (MHz) | Maximum Conducted Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|-----------------------|-------------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| <b>For WLAN</b>       |                               |                    |               |                                     |                             |
| 2412~2462             | 21.41                         | 2.79               | 20            | 0.0520                              | 1                           |
| 5180~5240             | 21.60                         | 3.9                | 20            | 0.0710                              | 1                           |
| 5260~5320             | 18.92                         | 3.9                | 20            | 0.0380                              | 1                           |
| 5500~5700             | 21.01                         | 4.0                | 20            | 0.0630                              | 1                           |
| 5745~5825             | 21.28                         | 4.0                | 20            | 0.0671                              | 1                           |
| <b>For BT</b>         |                               |                    |               |                                     |                             |
| 2402~2480 EDR         | 10.79                         | 2.79               | 20            | 0.0050                              | 1                           |
| 2402~2480 LE          | 10.75                         | 2.79               | 20            | 0.0040                              | 1                           |

### 3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

#### **Linkou**

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333, Taiwan, R.O.C.

#### **Kwei Shan Site II**

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No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

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Email: ICC\_Service@icertifi.com.tw

==END==