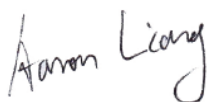
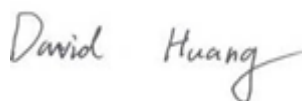



# RF EXPOSURE REPORT



Report No.: 18070406-FCC-H

Supersede Report No.: N/A

Applicant	SWAGTEK	
Product Name	4 inch 3G Smart Phone	
Model No.	LOGIC X4G	
Serial No.	iSWAG Alpha, UNONU X4G	
Test Standard	FCC 2.1093	
Test Date	May 03 to 20, 2018	
Issue Date	May 21, 2018	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
		
Aaron Liang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
18070406-FCC-H	NONE	Original	May 21, 2018

## 2. Customer information

Applicant Name	SWAGTEK
Applicant Add	10205 NW 19th Street, STE 101, Miami, FL 33172
Manufacturer	SWAGTEK
Manufacturer Add	10205 NW 19th Street, STE 101, Miami, FL 33172

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

## 4. Equipment under Test (EUT) Information

Description of EUT:	4 inch 3G Smart Phone
Main Model:	LOGIC X4G
Serial Model:	iSWAG Alpha, UNONU X4G
Date EUT received:	May 03, 2018
Test Date(s):	May 03 to 20, 2018
Antenna Gain:	WIFI: -1.5dBi Bluetooth/BLE: -1dBi
Antenna Type:	PIFA Antenna
Type of Modulation:	802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK BLE: GFSK
RF Operating Frequency (ies):	WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH
Port:	USB Port, Earphone Port

Adapter 1:

Model: A31A-050055U-US1

Input: AC100-240V~50/60Hz,0.2Amps

Output: DC 5.0V, 550mA

Adapter 2:

Model: A31A-050055U-US1

Input: AC100-240V~50/60Hz,0.2Amps

Output: DC 5.0V, 550mA

Battery 1:

Spec: 3.8V, 1500mAh, 5.7Wh

Battery 2:

Spec: 3.8V, 1500mAh, 5.7Wh

Input Power:

Trade Name :

LOGIC, iSWAG, UNONU

FCC ID:

O55401618

## 5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

### 5.1 RF Exposure

#### Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission' s guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{GHz}}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>16</sup> where

- $f_{\text{GHz}}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



## 5.2 Test Result

### WIFI Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	8.16	8±1	9	7.943	2.47	3
	Mid	2442	8.88	8±1	9	7.943	2.48	3
	High	2472	8.54	8±1	9	7.943	2.49	3
802.11g	Low	2412	6.97	7.5±1	8.5	7.079	2.20	3
	Mid	2442	7.77	7.5±1	8.5	7.079	2.21	3
	High	2472	8.36	7.5±1	8.5	7.079	2.22	3
802.11n (20M)	Low	2412	6.92	7.5±1	8.5	7.079	2.20	3
	Mid	2442	7.49	7.5±1	8.5	7.079	2.21	3
	High	2472	8.21	7.5±1	8.5	7.079	2.22	3
802.11n (40M)	Low	2422	6.59	7±1	8	6.310	1.96	3
	Mid	2442	7.07	7±1	8	6.310	1.97	3
	High	2462	7.48	7±1	8	6.310	1.98	3

### Bluetooth Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-3.617	-2.8±1	-1.8	0.661	0.20	3
	Mid	2441	-3.222	-2.8±1	-1.8	0.661	0.21	3
	High	2480	-1.971	-2.8±1	-1.8	0.661	0.21	3
π /4 DQPSK	Low	2402	-3.774	-3±1	-2	0.631	0.20	3
	Mid	2441	-3.470	-3±1	-2	0.631	0.20	3
	High	2480	-2.296	-3±1	-2	0.631	0.20	3
8-DPSK	Low	2402	-3.612	-3±1	-2	0.631	0.20	3
	Mid	2441	-3.437	-3±1	-2	0.631	0.20	3
	High	2480	-2.249	-3±1	-2	0.631	0.20	3

**BLE Mode:**

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-0.794	-1±1	0	1.000	0.31	3
	Mid	2440	-0.857	-1±1	0	1.000	0.31	3
	High	2480	-1.005	-1±1	0	1.000	0.31	3

**Result:** Compliance

No SAR measurement is required.