

FCC PART 15B, CLASS B **TEST REPORT**

For

SWAGTEK

10205 NW 19th Street, STE 101, Miami, FL33172, United States

FCC ID: 055182117

Report Type: Product Type:

Original Report Feature Phone

Report Number: RSZ170622003-00A

Report Date: 2017-07-06

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The SWAGTEK's product, model number: LOGIC M1 PLUS (FCC ID: O55182117) or the "EUT" in this report was a Feature Phone, which was measured approximately: $11.0 \text{ cm } (L) \times 4.7 \text{ cm } (W) \times 1.1 \text{ cm } (H)$, rated with input voltage: DC 3.7V rechargeable battery or DC 5.0V from adapter. The highest operating frequency is 2480 MHz.

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Adapter Information: Model: CARGADOR

Input: AC100-240V, 50/60Hz, 150 mA

Output: DC5.0V, 500 mA

Notes: This series products model: iSWAG GEM, UNONU UW183 and LOGIC M1 PLUS are identical; they have the identical schematics, only named differently. Model LOGIC M1 PLUS was selected for fully testing, the detailed information can be referred to the declaration which was stated and guaranteed by the applicant.

*All measurement and test data in this report was gathered from production sample serial number: 1701372 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2017-06-16.

Objective

This test report is prepared on behalf of *SWAGTEK in* accordance with Part 2-Subpart J, Part 15-Subparts A, B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS and FCC Part 22H & 24E PCE submissions with FCC ID: O55182117.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

| | Item | Uncertainty |
|-------------------|-----------------------|-------------|
| AC Power Lines | s Conducted Emissions | ±3.26 dB |
| D. Estadaminista | 30MHz~1GHz | ±5.91dB |
| Radiated emission | Above 1G | ±4.92dB |

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China

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Bay Area Compliance Laboratories Corp. (Kunshan) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L9963). And accredited to ISO/IEC 17025 by A2LA(Lab code: 4323.01), the FCC Designation No. CN1185 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Kunshan) was registered with ISED Canada under ISED Canada Registration Number 3062E.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT operation mode: Downloading (data transfer with computer)

EUT Exercise Software

"BurnIn test v5.3" exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-----------|------------------------------|
| DELL | Notebook | E6410 | GYXJ3A00 JSD2 |
| DELL | Mouse | MOC5UO | G1900NKD |
| DELL | Adapter | LA90PM130 | CN-06C3W2-72438-6BT-194A-A03 |
| Kingston | U disk | 4 GB | N/A |

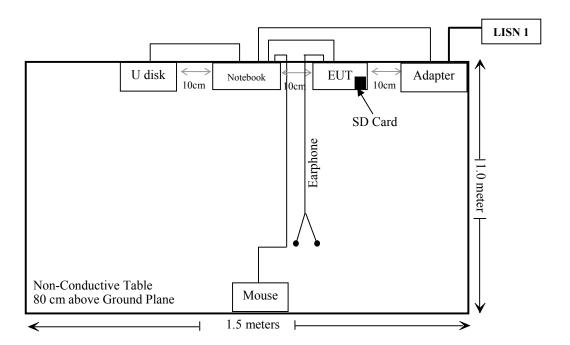
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External I/O Cable

| Cable Description | Length (m) | From/Port | To |
|-------------------------------------|------------|-----------|--------|
| Un-Shielding Detachable USB Cable | 1.5 | PC | U disk |
| Un-Shielding Detachable USB Cable | 1.5 | PC | Mouse |
| Un-shielding Detachable USB Cable | 1.0 | EUT | PC |
| Un-shielding Detachable AC Cable | 0.9 | Adapter | LISN 1 |
| Un-shielding Un-detachable DC Cable | 0.9 | Adapter | PC |

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results |
|-----------|-----------------------------|------------|
| §15.107 | AC Line Conducted Emissions | Compliance |
| §15.109 | Radiated Spurious Emissions | Compliance |

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TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date | | |
|---------------------------------|--------------------|---------------------------|---------------|---------------------|-------------------------|--|--|
| AC Line Conducted Emission Test | | | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 834115/007 | 2016-11-25 | 2017-11-25 | | |
| Rohde & Schwarz | LISN | ESH3-Z5 | 862770/011 | 2016-10-10 | 2017-10-10 | | |
| Rohde & Schwarz | Pulse limiter | ESH3-Z2 | 879940/0058 | 2017-06-18 | 2018-06-18 | | |
| MICRO-COAX | Coaxial line | UFB-293B-1- 0480-50X50 | 97F0173 | 2016-09-08 | 2017-09-08 | | |
| Rohde & Schwarz | CE Test software | EMC 32 | V 09.10.0 | NCR | NCR | | |
| | F | Radiated Emission | n Test | | | | |
| Sonoma Instrunent | Amplifier | 330 | 171377 | 2016-10-21 | 2017-10-21 | | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 100195 | 2016-11-25 | 2017-11-25 | | |
| Sunol Sciences | Broadband Antenna | JB3 | A090314-2 | 2016-01-09 | 2019-01-08 | | |
| Narda | Pre-amplifier | AFS42- 00101800 | 2001270 | 2016-09-08 | 2017-09-08 | | |
| EMCO | Horn Antenna | 3116 | 00084159 | 2016-10-18 | 2019-10-17 | | |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 100048 | 2016-11-25 | 2017-11-25 | | |
| ETS | Horn Antenna | 3115 | 6229 | 2016-01-11 | 2019-01-10 | | |
| R&S | Auto test Software | EMC32 | V 09.10.0 | NCR | NCR | | |
| haojintech | Coaxial Cable | Cable-1 | 001 | 2016-12-12 | 2017-12-12 | | |
| haojintech | Coaxial Cable | Cable-2 | 002 | 2016-12-12 | 2017-12-12 | | |
| haojintech | Coaxial Cable | Cable-3 | 003 | 2016-12-12 | 2017-12-12 | | |
| MICRO-COAX | Coaxial Cable | Cable-4 | 004 | 2016-12-12 | 2017-12-12 | | |
| MICRO-COAX | Coaxial Cable | Cable-5 | 005 | 2016-12-12 | 2017-12-12 | | |

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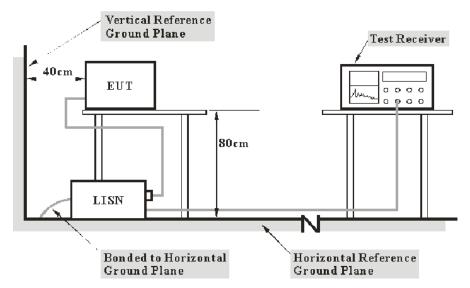
^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI)

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

EUT Setup



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Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

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Test Procedure

During the conducted emission test, the adaptor of PC was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

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Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107.

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

| Temperature: | 24 °C |
|--------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Layne Li on 2017-06-29.

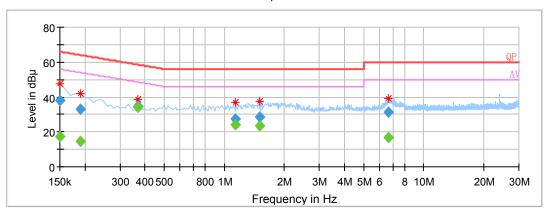
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EUT Operation Mode: Downloading

AC 120V/60 Hz, Line



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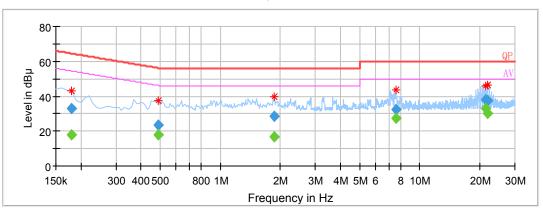
| Frequency (MHz) | QuasiPeak (dBµV) | Average (dB \mu V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|-----------------|---------------------|-----------------------|--------------------|------|------------|----------------|-----------------|------------|
| 0.150000 | | 17.27 | 9.000 | L1 | 10.1 | 38.73 | 56.00 | Compliance |
| 0.150000 | 37.83 | | 9.000 | L1 | 10.1 | 28.17 | 66.00 | Compliance |
| 0.190000 | | 14.81 | 9.000 | L1 | 10.2 | 39.23 | 54.04 | Compliance |
| 0.190000 | 32.88 | | 9.000 | L1 | 10.2 | 31.16 | 64.04 | Compliance |
| 0.370000 | | 34.01 | 9.000 | L1 | 10.1 | 14.49 | 48.50 | Compliance |
| 0.370000 | 34.74 | | 9.000 | L1 | 10.1 | 23.76 | 58.50 | Compliance |
| 1.140000 | | 23.82 | 9.000 | L1 | 9.9 | 22.18 | 46.00 | Compliance |
| 1.140000 | 27.52 | | 9.000 | L1 | 9.9 | 28.48 | 56.00 | Compliance |
| 1.510000 | | 23.23 | 9.000 | L1 | 9.9 | 22.77 | 46.00 | Compliance |
| 1.510000 | 28.79 | | 9.000 | L1 | 9.9 | 27.21 | 56.00 | Compliance |
| 6.660000 | | 16.77 | 9.000 | L1 | 10.0 | 33.23 | 50.00 | Compliance |
| 6.660000 | 31.58 | | 9.000 | L1 | 10.0 | 28.42 | 60.00 | Compliance |

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AC 120V/60 Hz, Neutral



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| Frequency (MHz) | QuasiPeak (dBµV) | Average (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|---------------------|---------------------|--------------------|------|------------|-------------|-----------------|------------|
| 0.180000 | | 17.97 | 9.000 | N | 10.1 | 36.52 | 54.49 | Compliance |
| 0.180000 | 32.76 | | 9.000 | N | 10.1 | 31.73 | 64.49 | Compliance |
| 0.490000 | | 18.11 | 9.000 | N | 10.1 | 28.06 | 46.17 | Compliance |
| 0.490000 | 23.71 | | 9.000 | N | 10.1 | 32.46 | 56.17 | Compliance |
| 1.870000 | | 16.54 | 9.000 | N | 9.9 | 29.46 | 46.00 | Compliance |
| 1.870000 | 28.27 | | 9.000 | N | 9.9 | 27.73 | 56.00 | Compliance |
| 7.580000 | | 27.55 | 9.000 | N | 9.9 | 22.45 | 50.00 | Compliance |
| 7.580000 | 32.31 | | 9.000 | N | 9.9 | 27.69 | 60.00 | Compliance |
| 21.290000 | | 33.24 | 9.000 | N | 10.2 | 16.76 | 50.00 | Compliance |
| 21.290000 | 37.89 | | 9.000 | N | 10.2 | 22.11 | 60.00 | Compliance |
| 21.790000 | | 30.26 | 9.000 | N | 10.2 | 19.74 | 50.00 | Compliance |
| 21.790000 | 37.56 | | 9.000 | N | 10.2 | 22.44 | 60.00 | Compliance |

1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation

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²⁾ Corrected Amplitude = Reading + Correction Factor
3) Margin = Limit – Corrected Amplitude

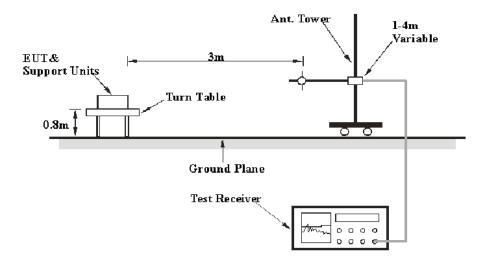
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §15.109

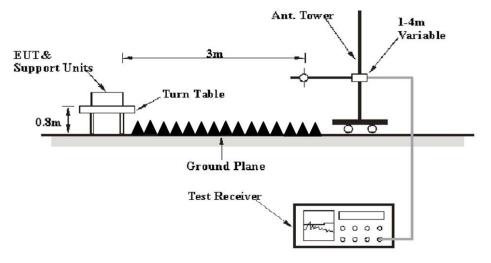
EUT Setup

Below 1 GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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EMI Test Receiver Setup

The system was investigated from 30 MHz to 12.4GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz | 120 kHz | QP |
| Above 1 GHz | 1MHz | 3 MHz | / | PK |
| Above I GHZ | 1MHz | 10 Hz | / | Ave. |

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Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

| Temperature: | 24 ℃ |
|--------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Layne Li on 2017-06-29.

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EUT Operation Mode: Downloading

30 MHz~12.4 GHz

| Frequency (MHz) | Receiver | | Turntable | Rx Antenna | | | Corrected | FCC Part 15B | |
|--------------------|----------------|--------------------------|-----------|------------|------------------|---------------|-----------------------|--------------|----------------|
| | Reading (dBµV) | Detector (PK/QP/Ave.) | Degree | Height | Polar (H / V) | Factor (dB/m) | Amplitude (dBµV/m) | | Margin (dB) |
| 33.19 | 29.31 | QP | 0 | 1.1 | V | 5.82 | 35.13 | 40.00 | 4.87 |
| 36.59 | 24.27 | QP | 260 | 1.1 | V | 4.34 | 28.61 | 40.00 | 11.39 |
| 48.00 | 37.60 | QP | 356 | 1.1 | V | -4.32 | 33.28 | 40.00 | 6.72 |
| 177.74 | 30.06 | QP | 47 | 1.1 | V | -1.54 | 28.52 | 43.50 | 14.98 |
| 812.19 | 21.41 | QP | 181 | 1.3 | Н | 9.93 | 31.34 | 46.00 | 14.66 |
| 885.39 | 20.45 | QP | 235 | 1.8 | Н | 10.50 | 30.95 | 46.00 | 15.05 |
| 1725.14 | 53.56 | PK | 322 | 1.7 | Н | -8.51 | 45.05 | 74 | 28.95 |
| 1725.14 | 32.73 | Ave. | 322 | 1.7 | Н | -8.51 | 24.22 | 54 | 29.78 |
| 2148.11 | 55.88 | PK | 303 | 1.0 | V | -6.87 | 49.01 | 74 | 24.99 |
| 2148.11 | 35.09 | Ave. | 303 | 1.0 | V | -6.87 | 28.22 | 54 | 25.78 |

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- 1) Correction Factor=Antenna factor (RX) + cable loss amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
 3) Margin = Limit Corrected Amplitude

***** END OF REPORT *****

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