



# FCC PART 15B, CLASS B TEST REPORT

For

## **BLU Products, Inc.**

10814 NW 33rd St # 100 Doral, FL 33172, United States

FCC ID: YHLBLUG9PRO

| Report Type: Original Report |                 | Product Type: Mobile Phone |    |
|------------------------------|-----------------|----------------------------|----|
| Report Number:               | RSZ190513008    | 3-00C                      |    |
| Report Date:                 | 2019-07-12      |                            |    |
|                              | Nancy Wang      | Nany Wang                  |    |
| Reviewed By:                 | RF Engineer     | , 0                        |    |
| Prepared By:                 | 6/F., West Wing | 3320018<br>33320008        | 1) |

**Note**: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA\* or any agency of the Federal Government. \* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "\*".

The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity.

## **TABLE OF CONTENTS**

| GENERAL INFORMATION                                | 3                    |
|--|----------------------|
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3                    |
| Objective  |                      |
| RELATED SUBMITTAL(S)/GRANT(S)                      |                      |
| TEST METHODOLOGY                                   |                      |
| MEASUREMENT UNCERTAINTY                            |                      |
| TEST FACILITY                                      | 4                    |
| SYSTEM TEST CONFIGURATION                          | 5                    |
| DESCRIPTION OF TEST CONFIGURATION                  | 5                    |
| EUT Exercise Software                              | 5                    |
| SPECIAL ACCESSORIES                                |                      |
| EQUIPMENT MODIFICATIONS                            | 5                    |
| SUPPORT EQUIPMENT LIST AND DETAILS                 |                      |
| External I/O Cable                                 | 6                    |
| BLOCK DIAGRAM OF TEST SETUP                        | 6                    |
| SUMMARY OF TEST RESULTS                            | 7                    |
|  |                      |
| TEST EQUIPMENT LIST                                | 8                    |
| FCC §15.107 – AC LINE CONDUCTED EMISSIONS          | 9                    |
| APPLICABLE STANDARD                                |                      |
| EUT SETUP.   |                      |
| EMI TEST RECEIVER SETUP.                           |                      |
| TEST PROCEDURE                                     |                      |
| CORRECTED FACTOR & MARGIN CALCULATION              | 10                   |
| TEST RESULTS SUMMARY                               | 10                   |
| Test Data  | 10                   |
| FCC §15.109 - RADIATED SPURIOUS EMISSIONS          |                      |
|  | 13                   |
| APPLICABLE STANDARD                                |                      |
| Applicable Standard<br>EUT Setup                   | 13                   |
| EUT SETUP  |                      |
| EUT SETUPEMI TEST RECEIVER SETUP                   | 13<br>13             |
| EUT SETUP  | 13<br>13<br>14       |
| EUT SETUP EMI TEST RECEIVER SETUP TEST PROCEDURE   | 13<br>13<br>14<br>14 |

#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

| Product                     | Mobile Phone   |
|-----------------------------|--|
| Model                       | G9 PRO   |
| Voltage Range               | Powered: DC 3.85V by internal rechargeable Li-Polymer battery Recharged: DC 3.6-12V by adapter                         |
| Highest operating frequency | 2690 MHz   |
| Date of Test                | 2019/05/15~2019/06/14  |
| Sample serial number        | 1234567890123 (Assigned by Applicant)  |
| Received date               | 2019/05/13   |
| Sample/EUT Status           | Good condition   |
| Adapter information         | Model: US-KB-2000<br>Input: AC 100-240V, 50/60Hz, 0.6A<br>Output: DC 3.6-6V, 3000mA/ DC 6-9V, 2000mA/ DC 9-12V, 1500mA |

Report No.: RSZ190513008-00C

#### **Objective**

This test report is prepared on behalf of *BLU Products, Inc.* 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, Part 15.247 DTS and Part 22H&24E&27 PCE submissions with FCC ID: YHLBLUG9PRO.

#### **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. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

FCC Part 15B, Class B Page 3 of 18

#### **Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Report No.: RSZ190513008-00C

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will be taken into consideration for the test data recorded in the report

| Parameter           |            | uncertainty |
|---------------------|------------|-------------|
| Conducted Emissions |            | ±1.95dB     |
| Radiated Below 1GHz |            | ±4.75dB     |
| Emissions           | Above 1GHz | ±4.88dB     |

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

FCC Part 15B, Class B Page 4 of 18

## **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         | Host PC       | DCSCSF         | 127BP2X          |
| DELL         | Host PC       | OPTIPLEX 380   | Unknown          |
| TCL          | Monitor       | TFT1560PS      | ALA560806C160409 |
| TCL          | Monitor       | TFT1780PS      | ALA7800069171661 |
| Microsoft    | Keyboard      | 1406           | 0200706128743    |
| DELL         | Mouse         | MOC5UO         | G1900NKD         |
| NEWMEN       | Mouse         | KM201          | KM2021-150700337 |
| SAST         | Modem         | AEM-2100       | 0293             |
| Kingston     | Micro SD card | 1 GB           | 201              |
| LISTED       | Modem Adapter | TYP60-1207000Z | 326703           |

Report No.: RSZ190513008-00C

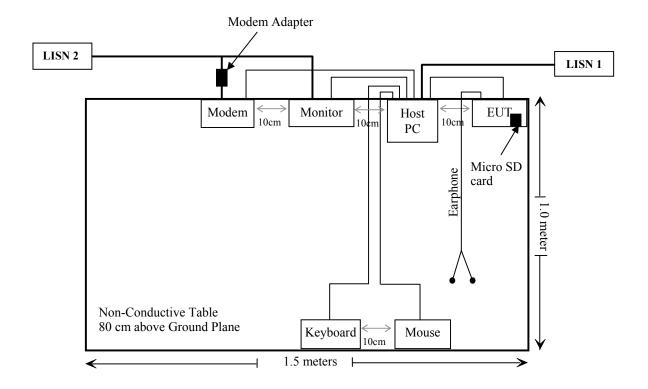
FCC Part 15B, Class B Page 5 of 18

#### **External I/O Cable**

| Cable Description                                      | Length (m) | From/Port | То       |
|--|------------|-----------|----------|
| Un-Shielding Detachable USB Cable                      | 1.5        | Host PC   | Mouse    |
| Shielding Detachable Serial Cable                      | 1.2        | Host PC   | Modem    |
| Shielding Detachable K/B Cable With Magnet Ring        | 1.5        | Host PC   | Keyboard |
| Shielding Detachable VGA Cable                         | 1.5        | Host PC   | Monitor  |
| Un-Shielding Detachable USB Cable<br>With Ferrite Core | 1.0        | EUT       | Host PC  |
| Un-shielding Detachable Earphone Cable                 | 1.2        | EUT       | Earphone |

## **Block Diagram of Test Setup**

For conducted emission:



FCC Part 15B, Class B Page 6 of 18

## SUMMARY OF TEST RESULTS

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

Report No.: RSZ190513008-00C

FCC Part 15B, Class B Page 7 of 18

| Manufacturer                    | Description                 | Model                   | Serial<br>Number           | Calibration<br>Date | Calibration<br>Due Date |  |  |
|---------------------------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------|--|--|
| AC Line Conducted Emission Test |                             |                         |                            |                     |                         |  |  |
| Rohde & Schwarz                 | EMI Test Receiver           | ESCS30                  | 100176                     | 2018-07-11          | 2019-07-11              |  |  |
| Rohde & Schwarz                 | LISN                        | ENV216                  | 3560.6650.12-<br>101613-Yb | 2019-01-25          | 2020-01-25              |  |  |
| Rohde & Schwarz                 | Transient Limiter           | ESH3Z2                  | DE25985                    | 2019-03-02          | 2020-03-02              |  |  |
| Rohde & Schwarz                 | CE Test software            | EMC 32                  | V8.53.0                    | NCR                 | NCR                     |  |  |
| Un-known                        | Conducted Emission<br>Cable | 78652                   | UF A210B-1-<br>0720-504504 | 2018-11-12          | 2019-11-12              |  |  |
|                                 | R                           | Radiated Emission       | n Test                     |                     |                         |  |  |
| A.H. System                     | Horn Antenna                | SAS-200/571             | 135                        | 2018-09-01          | 2021-08-31              |  |  |
| Rohde & Schwarz                 | SPECTRUM<br>ANALYZER        | FSV40-N                 | 102259                     | 2019-05-10          | 2020-05-10              |  |  |
| Sunol Sciences                  | Broadband Antenna           | JB1                     | A040904-1                  | 2017-12-22          | 2020-12-21              |  |  |
| COM-POWER                       | Pre-amplifier               | PA-122                  | 181919                     | 2018-11-12          | 2019-11-12              |  |  |
| Sonoma Instrument               | Amplifier                   | 310N                    | 186238                     | 2018-11-12          | 2019-11-12              |  |  |
| Rohde & Schwarz                 | EMI Test Receiver           | ESR                     | 1316.3003K03<br>-101746-zn | 2018-07-11          | 2019-07-11              |  |  |
| Ducommun technologies           | RF Cable                    | UFA147A-<br>2362-100100 | MFR64639<br>231029-003     | 2018-11-12          | 2019-11-12              |  |  |
| Ducommun technologies           | RF Cable                    | 104PEA                  | 218124002                  | 2018-11-12          | 2019-11-12              |  |  |
| Ducommun<br>Technologies        | RF Cable                    | RG-214                  | 1                          | 2018-11-12          | 2019-11-12              |  |  |
| Ducommun<br>Technologies        | RF Cable                    | RG-214                  | 2                          | 2018-11-12          | 2019-11-12              |  |  |
| Heatsink Required               | Amplifier                   | QLW-<br>18405536-J0     | 15964001002                | 2018-11-12          | 2019-11-12              |  |  |
| Rohde & Schwarz                 | Auto test software          | EMC 32                  | V9.10                      | NCR                 | NCR                     |  |  |

Report No.: RSZ190513008-00C

FCC Part 15B, Class B Page 8 of 18

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) 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**



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  |  |  |

#### **Test Procedure**

During the conducted emission test, the host PC was connected to the first LISN and the other relevant equipments were connected to the second 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.

FCC Part 15B, Class B Page 9 of 18

#### **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:

Report No.: RSZ190513008-00C

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**

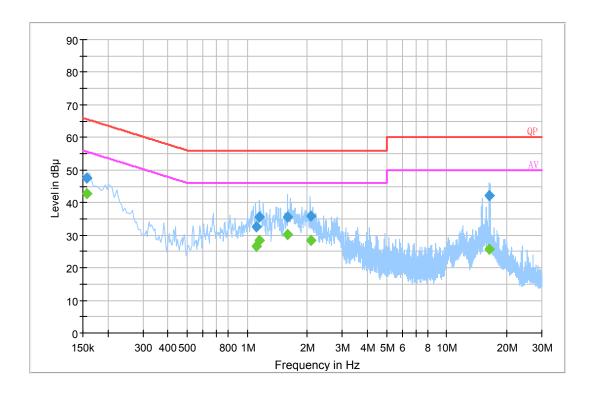
| Temperature:       | 25 °C     |
|--------------------|-----------|
| Relative Humidity: | 50 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Haiguo Li on 2019-05-15.

EUT Operation Mode: Downloading

FCC Part 15B, Class B Page 10 of 18

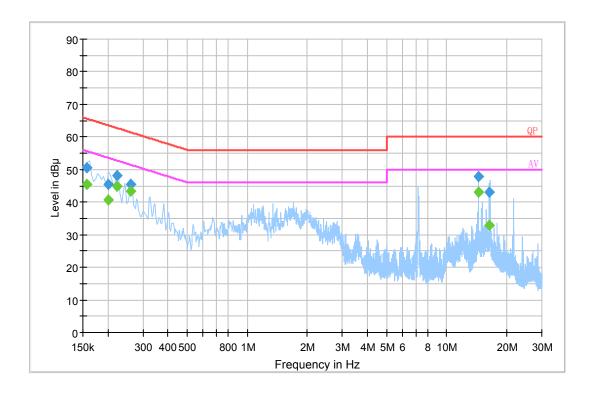
## AC 120V/60 Hz, Line



| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBµV) | Correction<br>Factor<br>(dB) | Limit<br>(dBµV) | Margin<br>(dB) | Detector<br>(PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.157500           | 47.5                             | 19.8                         | 65.6            | 18.1           | QP                       |
| 1.109470           | 32.7                             | 19.8                         | 56.0            | 23.3           | QP                       |
| 1.152690           | 35.6                             | 19.8                         | 56.0            | 20.4           | QP                       |
| 1.594150           | 35.6                             | 19.8                         | 56.0            | 20.4           | QP                       |
| 2.074890           | 35.8                             | 19.9                         | 56.0            | 20.2           | QP                       |
| 16.368390          | 42.3                             | 20.1                         | 60.0            | 17.7           | QP                       |
| 0.157500           | 42.7                             | 19.8                         | 55.6            | 12.9           | Ave.                     |
| 1.109470           | 26.5                             | 19.8                         | 46.0            | 19.5           | Ave.                     |
| 1.152690           | 28.3                             | 19.8                         | 46.0            | 17.7           | Ave.                     |
| 1.594150           | 30.1                             | 19.8                         | 46.0            | 15.9           | Ave.                     |
| 2.074890           | 28.4                             | 19.9                         | 46.0            | 17.6           | Ave.                     |
| 16.368390          | 25.8                             | 20.1                         | 50.0            | 24.2           | Ave.                     |

FCC Part 15B, Class B Page 11 of 18

#### AC 120V/60 Hz, Neutral



| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBµV) | Correction<br>Factor<br>(dB) | Limit<br>(dBµV) | Margin<br>(dB) | Detector<br>(PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.157500           | 50.5                             | 19.8                         | 65.6            | 15.1           | QP                       |
| 0.201500           | 45.5                             | 19.8                         | 63.5            | 18.0           | QP                       |
| 0.221500           | 48.0                             | 19.8                         | 62.8            | 14.8           | QP                       |
| 0.261500           | 45.6                             | 19.8                         | 61.4            | 15.8           | QP                       |
| 14.417730          | 47.8                             | 19.9                         | 60.0            | 12.2           | QP                       |
| 16.385570          | 43.1                             | 20.1                         | 60.0            | 16.9           | QP                       |
| 0.157500           | 45.5                             | 19.8                         | 55.6            | 10.1           | Ave.                     |
| 0.201500           | 40.7                             | 19.8                         | 53.5            | 12.8           | Ave.                     |
| 0.221500           | 45.0                             | 19.8                         | 52.8            | 7.8            | Ave.                     |
| 0.261500           | 43.2                             | 19.8                         | 51.4            | 8.2            | Ave.                     |
| 14.417730          | 42.9                             | 19.9                         | 50.0            | 7.1            | Ave.                     |
| 16.385570          | 32.9                             | 20.1                         | 50.0            | 17.1           | Ave.                     |

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
  3) Margin = Limit Corrected Amplitude

FCC Part 15B, Class B Page 12 of 18

## FCC §15.109 - RADIATED SPURIOUS EMISSIONS

#### **Applicable Standard**

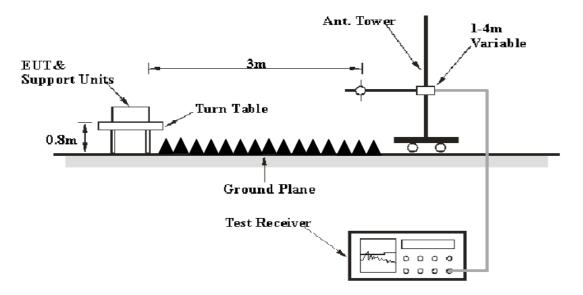
FCC §15.109

#### **EUT Setup**

**Below 1GHz:** 



#### **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.

FCC Part 15B, Class B Page 13 of 18

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.

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 13.5 GHz.

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

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

#### **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

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

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.

FCC Part 15B, Class B Page 14 of 18

## **Test Data**

#### **Environmental Conditions**

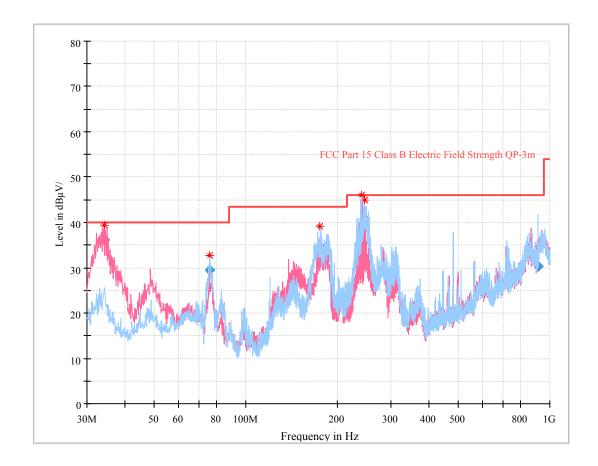
| Temperature:       | 23~25 ℃   |  |  |  |
|--------------------|-----------|--|--|--|
| Relative Humidity: | 51~52 %   |  |  |  |
| ATM Pressure:      | 101.0 kPa |  |  |  |

The testing was performed by Andy Yu on 2019-05-17 and by Curry Xiang on 2019-06-14.

Report No.: RSZ190513008-00C

EUT Operation Mode: Downloading

#### 30 MHz~1 GHz:



FCC Part 15B, Class B Page 15 of 18

| Frequency (MHz) | Corrected<br>Amplitude<br>(dBµV/m) | Antenna<br>height<br>(cm) | Antenna<br>Polarity | Turntable position (degree) | Correction<br>Factor<br>(dB/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |
|-----------------|------------------------------------|---------------------------|---------------------|-----------------------------|--------------------------------|-------------------|----------------|
| 34.205250       | 36.03                              | 100.0                     | V                   | 0.0                         | -10.1                          | 40.00             | 3.97           |
| 75.906625       | 29.38                              | 400.0                     | Н                   | 47.0                        | -20.2                          | 40.00             | 10.62          |
| 175.528000      | 32.98                              | 236.0                     | Н                   | 92.0                        | -15.1                          | 43.50             | 10.52          |
| 239.969375      | 35.70                              | 135.0                     | Н                   | 238.0                       | -14.1                          | 46.00             | 10.30          |
| 246.395750      | 40.86                              | 126.0                     | Н                   | 253.0                       | -14.1                          | 46.00             | 5.14           |
| 913.793625      | 30.03                              | 155.0                     | Н                   | 0.0                         | 5.7                            | 46.00             | 15.97          |

#### **Above 1GHz:**

| Frequency<br>(MHz) | Receiver       |            | Turntable | Rx Antenna |                  |        | Corrected             | FCC Part 15B      |                |
|--------------------|----------------|------------|-----------|------------|------------------|--------|-----------------------|-------------------|----------------|
|                    | Reading (dBµV) | PK/QP/Ave. | _         | Height     | Polar<br>(H / V) | (dB/m) | Amplitude<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
| 1137.62            | 43.67          | PK         | 178       | 2.1        | Н                | -5.43  | 38.24                 | 74                | 35.76          |
| 1137.62            | 28.55          | Ave.       | 178       | 2.1        | Н                | -5.43  | 23.12                 | 54                | 30.88          |
| 1137.62            | 43.41          | PK         | 251       | 1.7        | V                | -5.43  | 37.98                 | 74                | 36.02          |
| 1137.62            | 28.19          | Ave.       | 251       | 1.7        | V                | -5.43  | 22.76                 | 54                | 31.24          |
| 1920.08            | 43.12          | PK         | 184       | 2.1        | Н                | -1.50  | 41.62                 | 74                | 32.38          |
| 1920.08            | 28.95          | Ave.       | 184       | 2.1        | Н                | -1.50  | 27.45                 | 54                | 26.55          |
| 1920.08            | 43.34          | PK         | 180       | 1.8        | V                | -1.50  | 41.84                 | 74                | 32.16          |
| 1920.08            | 29.13          | Ave.       | 180       | 1.8        | V                | -1.50  | 27.63                 | 54                | 26.37          |

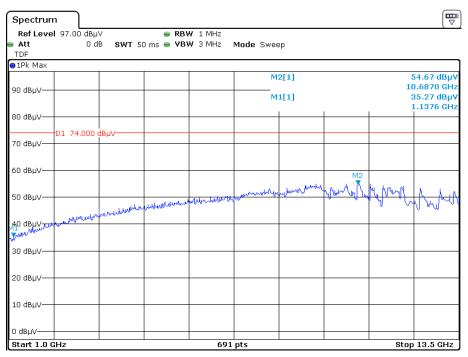
#### Note:

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

FCC Part 15B, Class B Page 16 of 18

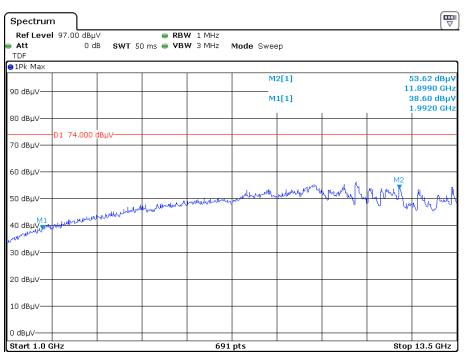
#### Pre-scan for peak Horizontal

Report No.: RSZ190513008-00C



Date: 14.JUN.2019 08:17:37

#### Vertical

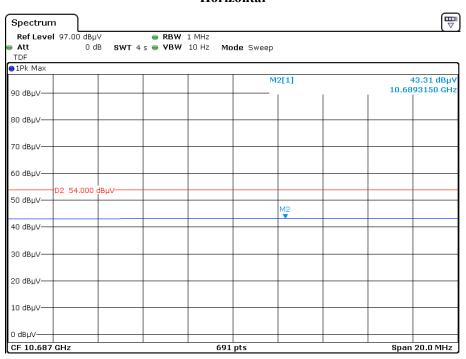


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FCC Part 15B, Class B Page 17 of 18

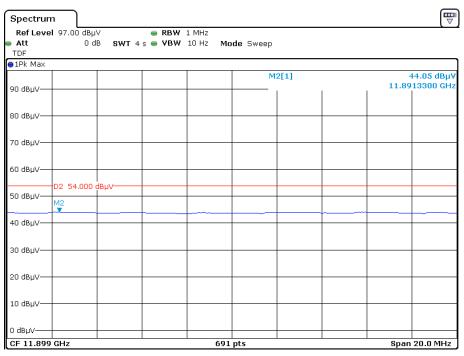
#### Pre-scan for Average Horizontal

Report No.: RSZ190513008-00C



Date: 14.JUN.2019 08:20:54

#### Vertical



Date: 14.JUN.2019 08:28:15

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

FCC Part 15B, Class B Page 18 of 18