



TESTING LABORATORY  
CERTIFICATE#4323.01



## FCC PART 15C

## TEST REPORT

For

### Queclink Wireless Solutions Co.,Ltd

3 Floor, Building 2, No.717 Yishan Road, Xuhui District, shanghai, 200233 China

**FCC ID: YQD-GPSCANID100**

|                                        |                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report | <b>Product Type:</b><br>RFID Reader                                                                                                                                                                                           |
| <b>Test Engineer:</b>                  | Carry Cai                                                                                                                                                                                                                     |
| <b>Report Number:</b>                  | RSHA200401001-00D                                                                                                                                                                                                             |
| <b>Report Date:</b>                    | 2020-07-07                                                                                                                                                                                                                    |
| <b>Reviewed By:</b>                    | Oscar Ye<br>EMC Manager                                                                                                                                                                                                       |
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## GENERAL INFORMATION

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

|                          |                                           |
|--------------------------|-------------------------------------------|
| Applicant                | Queclink Wireless Solutions Co.,Ltd       |
| Tested Model             | GPScanID 100                              |
| Product Type             | RFID Reader                               |
| Power Supply             | DC 7.4V form battery, DC 12V from adapter |
| RF Function              | RFID                                      |
| Operating Band/Frequency | 134.2kHz                                  |
| Antenna Type             | Monopole Antenna                          |
| Antenna Gain             | 0 dBi                                     |

#### Adapter Information:

Model: RCL-X120400Z

Input: AC100-240V 50/60Hz 1.0A

Output: 12V, 4000mA

*\*All measurement and test data in this report was gathered from production sample serial number: 20200401001  
(Assigned by the BACL. The EUT supplied by the applicant was received on 2020-04-01)*

### Objective

This Type approval report is prepared on behalf of *Queclink Wireless Solutions Co.,Ltd* in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission's rules.

The objective is to determine the Compliance of the EUT with FCC rules, sec 15.203, 15.205, 15.207, 15.209, 15.215.

### Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS Submittal with FCC ID: YQD-GPSCANID100

FCC Part 15.247 DTS Submittal with FCC ID: YQD-GPSCANID100

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

**Measurement Uncertainty**

| Item                               |            | Uncertainty |
|------------------------------------|------------|-------------|
| AC Power Lines Conducted Emissions |            | 3.19 dB     |
| RF conducted test with spectrum    |            | 0.9dB       |
| Radiated emission                  | 9kHz~30MHz | 6.07dB      |
|                                    | 30MHz~1GHz | 6.11dB      |
| Occupied Bandwidth                 |            | 0.5kHz      |
| Temperature                        |            | 1.0°C       |
| Humidity                           |            | 6%          |

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. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

### EUT Exercise Software

The EUT was tested in the engineering mode.

### Equipment Modifications

No modification on the EUT.

### Support Equipment List and Details

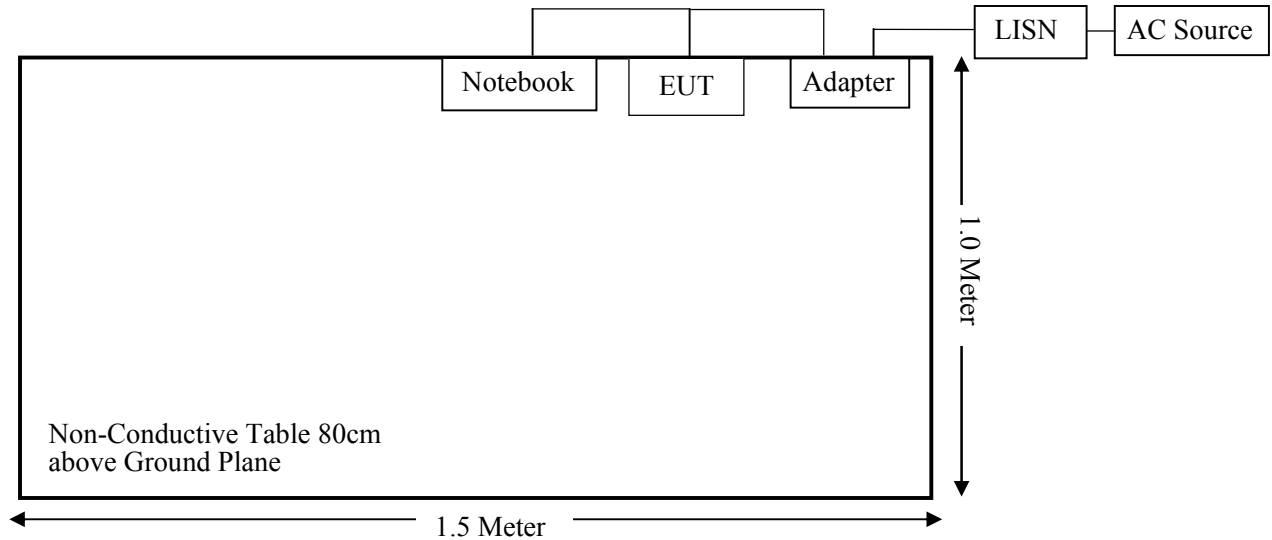
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| DELL         | Notebook    | GX620 | D65874152     |

### External I/O Cable

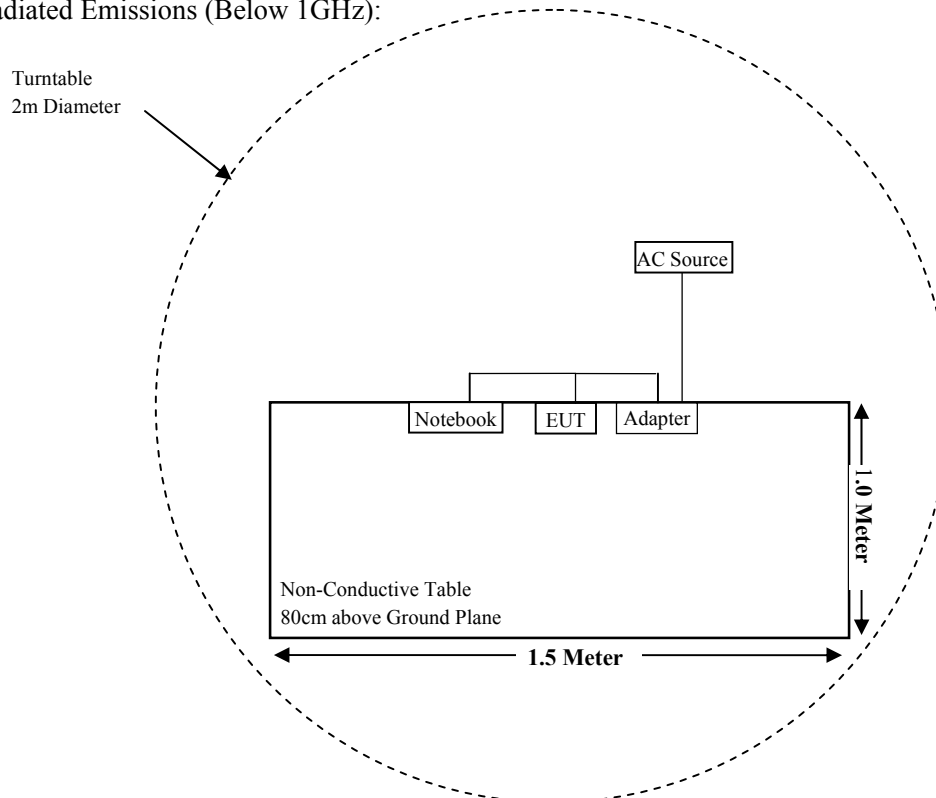
| Cable Description   | Length (m) | From Port           | To             |
|---------------------|------------|---------------------|----------------|
| Data/Charging Cable | 1.5        | EUT                 | Notebook       |
| Power Cable         | 1.2        | Data/Charging Cable | Adapter        |
| Power Cable         | 1.0        | Adapter             | LISN/AC source |

## Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



**SUMMARY OF TEST RESULTS**

| FCC Rules       | Description of Test             | Result    |
|-----------------|---------------------------------|-----------|
| §15.203         | Antenna Requirement             | Compliant |
| §15.207 (a)     | AC Line Conducted Emissions     | Compliant |
| §15.209 §15.205 | Radiated Emission Test          | Compliant |
| §15.215(c)      | 20dB Emission Bandwidth Testing | Compliant |

## TEST EQUIPMENT LIST

| Manufacturer                   | Description                    | Model    | Serial Number          | Calibration Date | Calibration Due Date |
|--------------------------------|--------------------------------|----------|------------------------|------------------|----------------------|
| <b>Radiated Emission Test</b>  |                                |          |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver              | ESCI     | 100195                 | 2019-12-14       | 2020-12-13           |
| Sunol Sciences                 | Broadband Antenna              | JB3      | A090413-1              | 2017-12-26       | 2020-12-25           |
| Sonoma Instrument              | Pre-amplifier                  | 310N     | 171205                 | 2019-08-15       | 2020-08-14           |
| ETS-LINDGREN                   | Loop Antenna                   | 6512     | 00108100               | 2019-04-25       | 2022-04-24           |
| Rohde & Schwarz                | Auto test Software             | EMC32    | 100361                 | /                | /                    |
| MICRO-COAX                     | Coaxial Cable                  | Cable-8  | 008                    | 2019-08-15       | 2020-08-14           |
| MICRO-COAX                     | Coaxial Cable                  | Cable-9  | 009                    | 2019-08-15       | 2020-08-14           |
| MICRO-COAX                     | Coaxial Cable                  | Cable-10 | 010                    | 2019-08-15       | 2020-08-14           |
| BACL                           | Temperature & Humidity Chamber | BTH-150  | 30023                  | 2019-12-20       | 2020-12-19           |
| <b>Conducted Emission Test</b> |                                |          |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver              | ESR      | 1316.3003K03-101746-zn | 2019-08-05       | 2020-08-04           |
| Rohde & Schwarz                | LISN                           | ENV216   | 101115                 | 2019-12-14       | 2020-12-13           |
| Audix                          | Test Software                  | e3       | V9                     | /                | /                    |
| Rohde & Schwarz                | Pulse limiter                  | ESH3-Z2  | 357.8810.52            | 2020-01-10       | 2021-01-09           |
| MICRO-COAX                     | Coaxial Cable                  | Cable-15 | 015                    | 2019-08-15       | 2020-08-14           |

\* **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§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **Antenna Connected Construction**

The EUT has a monopole antenna and antenna gain is 0 dBi, Antenna use a unique type of connector to attach to the EUT, fulfill the requirement of this section, please refer to the EUT photos.

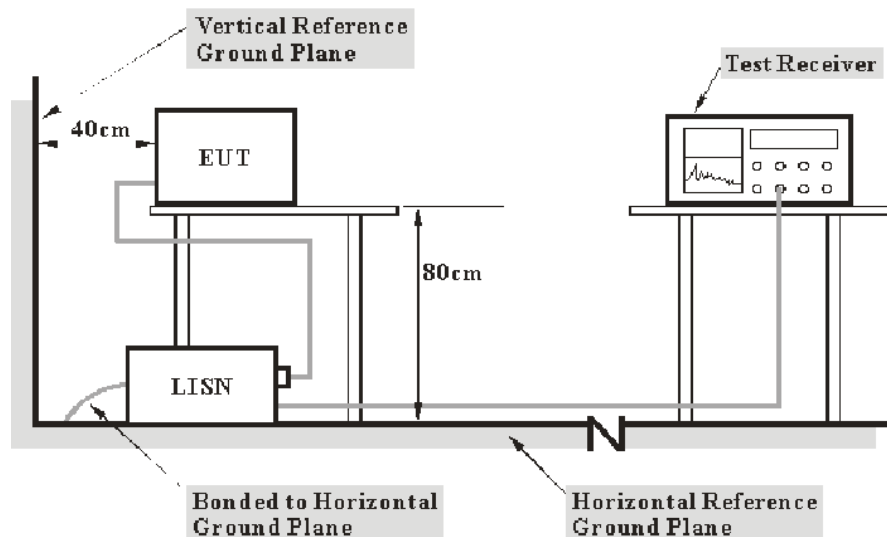
**Result:** Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207(a)

### 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 setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

### 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 adapter was connected to the outlet of 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.

### Factor & Over Limit Calculation

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

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over Limit of 7 dB means the emission is 7 dB above the limit. The equation for over limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

### Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

### Test Data

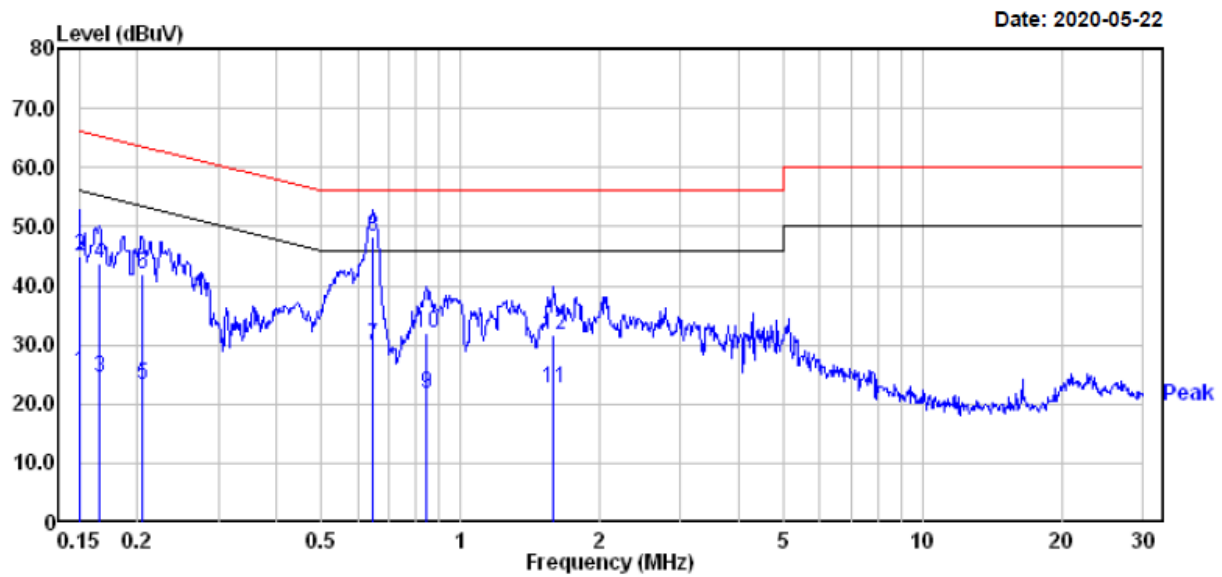
#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.5 °C   |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.3 kPa |

*The testing was performed by Carry Cai on 2020-05-22.*

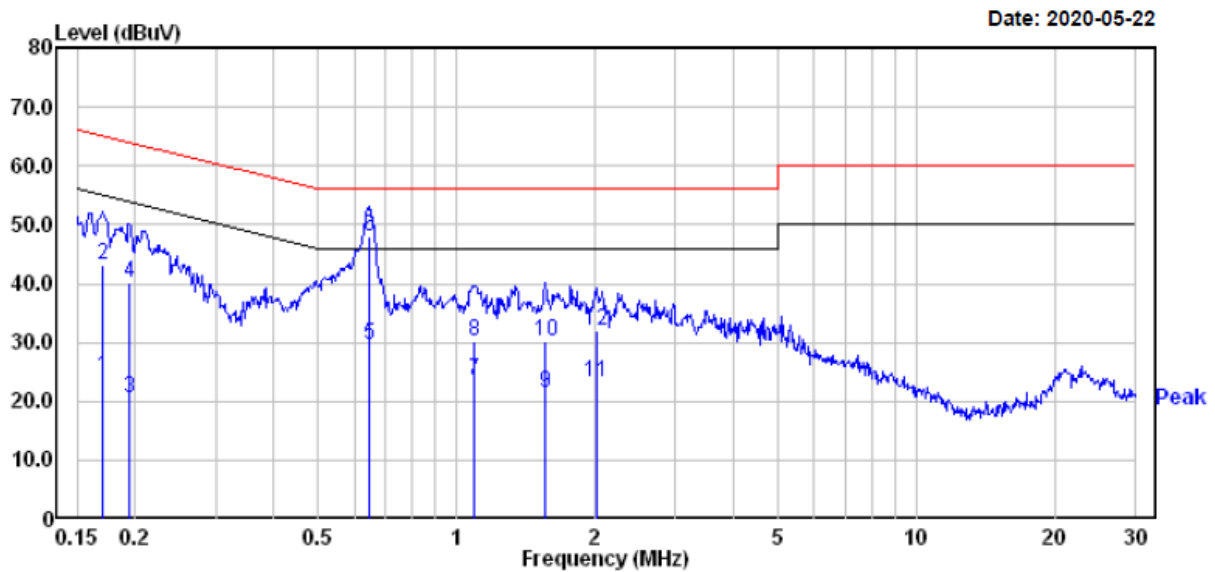
*EUT operation mode: Transmitting*

## AC 120V/60 Hz, Line



|    | Freq  | Read Level | Factor | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|--------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB     | dBuV  | dBuV       | dB         |         |
| 1  | 0.150 | 5.40       | 19.82  | 25.22 | 56.00      | -30.78     | Average |
| 2  | 0.150 | 25.10      | 19.82  | 44.92 | 66.00      | -21.08     | QP      |
| 3  | 0.165 | 4.50       | 19.83  | 24.33 | 55.21      | -30.88     | Average |
| 4  | 0.165 | 24.00      | 19.83  | 43.83 | 65.21      | -21.38     | QP      |
| 5  | 0.205 | 3.50       | 19.82  | 23.32 | 53.40      | -30.08     | Average |
| 6  | 0.205 | 22.00      | 19.82  | 41.82 | 63.40      | -21.58     | QP      |
| 7  | 0.647 | 10.10      | 19.75  | 29.85 | 46.00      | -16.15     | Average |
| 8  | 0.647 | 28.70      | 19.75  | 48.45 | 56.00      | -7.55      | QP      |
| 9  | 0.844 | 1.90       | 19.71  | 21.61 | 46.00      | -24.39     | Average |
| 10 | 0.844 | 12.20      | 19.71  | 31.91 | 56.00      | -24.09     | QP      |
| 11 | 1.593 | 2.79       | 19.85  | 22.64 | 46.00      | -23.36     | Average |
| 12 | 1.593 | 11.99      | 19.85  | 31.84 | 56.00      | -24.16     | QP      |

## AC 120V/60 Hz, Neutral



|    | Freq  | Read  |        | Limit | Over  |                |
|----|-------|-------|--------|-------|-------|----------------|
|    | MHz   | Level | Factor | Line  | Limit | Remark         |
|    | MHz   | dBuV  | dB     | dBuV  | dBuV  | dB             |
| 1  | 0.169 | 4.30  | 19.83  | 24.13 | 54.99 | -30.86 Average |
| 2  | 0.169 | 23.20 | 19.83  | 43.03 | 64.99 | -21.96 QP      |
| 3  | 0.194 | 0.60  | 19.82  | 20.42 | 53.84 | -33.42 Average |
| 4  | 0.194 | 20.20 | 19.82  | 40.02 | 63.84 | -23.82 QP      |
| 5  | 0.647 | 9.70  | 19.75  | 29.45 | 46.00 | -16.55 Average |
| 6  | 0.647 | 28.20 | 19.75  | 47.95 | 56.00 | -8.05 QP       |
| 7  | 1.094 | 3.60  | 19.82  | 23.42 | 46.00 | -22.58 Average |
| 8  | 1.094 | 10.50 | 19.82  | 30.32 | 56.00 | -25.68 QP      |
| 9  | 1.560 | 1.49  | 19.85  | 21.34 | 46.00 | -24.66 Average |
| 10 | 1.560 | 10.39 | 19.85  | 30.24 | 56.00 | -25.76 QP      |
| 11 | 2.012 | 3.30  | 19.82  | 23.12 | 46.00 | -22.88 Average |
| 12 | 2.012 | 12.10 | 19.82  | 31.92 | 56.00 | -24.08 QP      |

## Note:

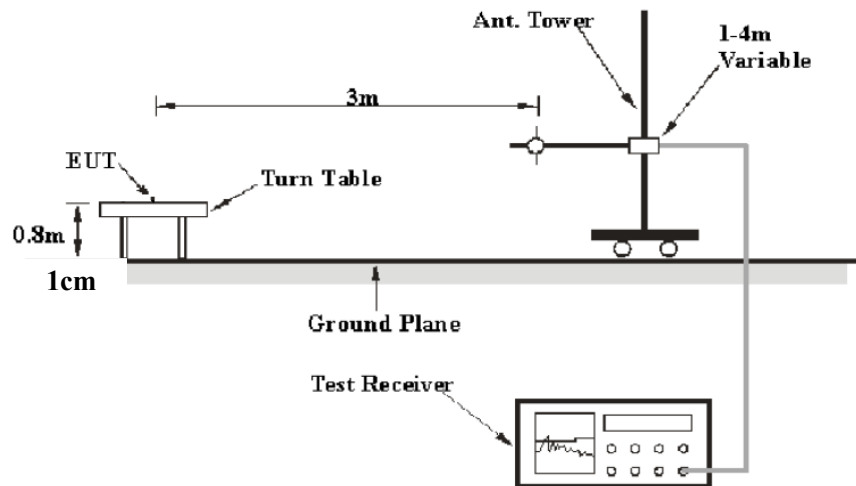
- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)  
 2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

## §15.205 & §15.209 - RADIATED EMISSIONS TEST

### Applicable Standard

FCC §15.209; §15.205;

### EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

### EMI Test Receiver Setup

The system was investigated from 9 kHz to 1GHz.

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

| Frequency Range   | RBW     | Video B/W | Detector   |
|-------------------|---------|-----------|------------|
| 9 kHz – 150 kHz   | 200 Hz  | 1 kHz     | QP/Average |
| 150 kHz – 30MHz   | 9kHz    | 30kHz     | QP/Average |
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz   | QP         |

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

### Test Procedure

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

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

### 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:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

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

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V/m)}$$

### Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205 and 15.209.

### Test Data

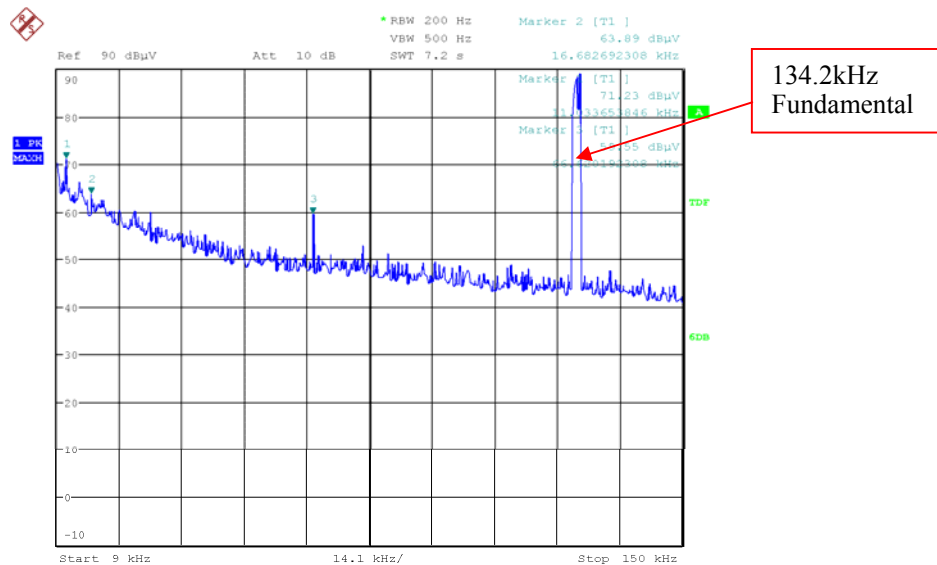
#### Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 24.2 °C  |
| Relative Humidity: | 48 %     |
| ATM Pressure:      | 101.2kPa |

*The testing was performed by Carry Cai on 2020-07-07.*

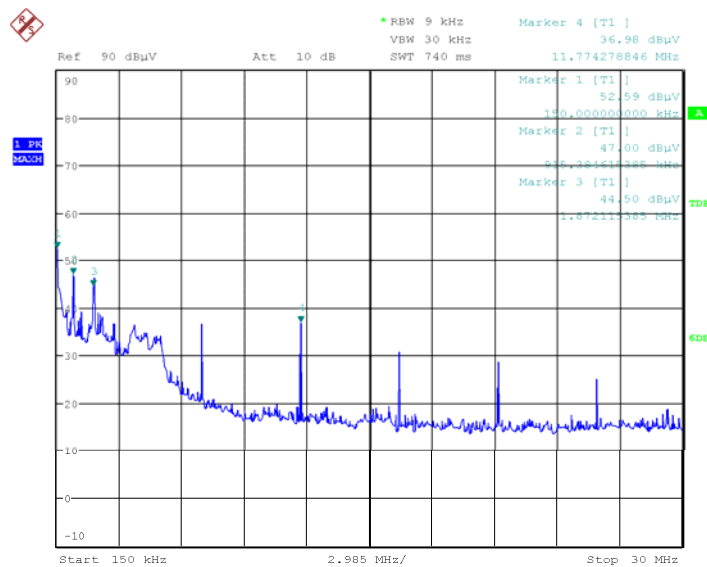
*Test mode: Transmitting*

## 1) Spurious Emissions (9 kHz~150 kHz):



Date: 7.JUL.2020 01:28:09

## 2) Spurious Emissions (150 kHz~30 MHz):



Date: 7.JUL.2020 01:31:36

9 kHz~490 kHz:

|                    |                                       | Detector<br>PK/QP/Ave. | Corrected<br>Factor<br>(dB/m) | FCC Part 15.209          |                            |                |
|--------------------|---------------------------------------|------------------------|-------------------------------|--------------------------|----------------------------|----------------|
| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBμV/m)@3m |                        |                               | Limit<br>(dBμV/m)<br>@3m | Limit<br>(dBμV/m)<br>@300m | Margin<br>(dB) |
| 0.011              | 71.23                                 | PK                     | 53.1                          | 126.78                   | 46.78                      | 55.55          |
| 0.017              | 63.89                                 | PK                     | 49.7                          | 123.00                   | 43.00                      | 59.11          |
| 0.067              | 59.55                                 | PK                     | 37.6                          | 111.08                   | 31.08                      | 51.53          |
| 0.150              | 52.59                                 | PK                     | 31.6                          | 104.08                   | 24.08                      | 51.49          |

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

490 kHz~30 MHz:

| Indicated          |                                       | Detector<br>PK/QP/Ave. | Corrected<br>Factor<br>(dB/m) | FCC Part 15.209          |                           |                |
|--------------------|---------------------------------------|------------------------|-------------------------------|--------------------------|---------------------------|----------------|
| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBμV/m)@3m |                        |                               | Limit<br>(dBμV/m)<br>@3m | Limit<br>(dBμV/m)<br>@30m | Margin<br>(dB) |
| 0.915              | 47.00                                 | PK                     | 15.6                          | 68.38                    | 28.38                     | 21.38          |
| 1.872              | 44.50                                 | PK                     | 3.7                           | 69.54                    | 29.54                     | 32.56          |
| 11.774             | 36.98                                 | PK                     | 1.5                           | 69.54                    | 29.54                     | 32.56          |

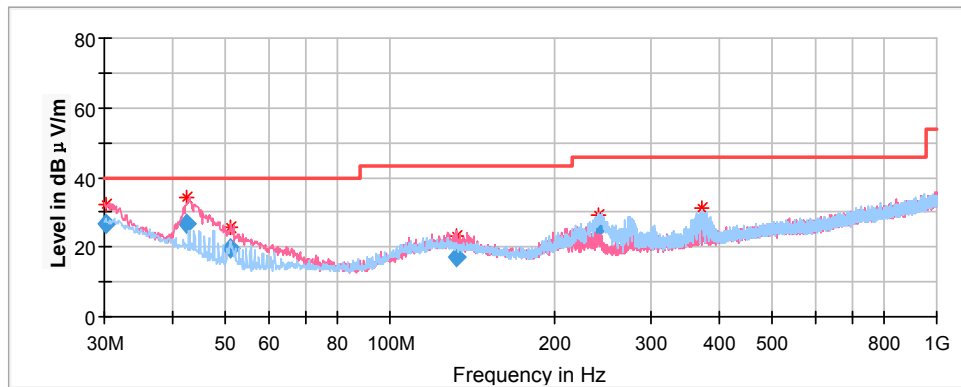
Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

## 3 Spurious Emissions (30 MHz ~1 GHz):



| Frequency<br>(MHz) | Corrected<br>Amplitude | Rx Antenna     |                | Turntable<br>Degree | Corrected<br>Factor<br>(dB/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|------------------------|----------------|----------------|---------------------|-------------------------------|-------------------|----------------|
|                    | QuasiPeak<br>(dBμV/m)  | Height<br>(cm) | Polar<br>(H/V) |                     |                               |                   |                |
| 30.30              | 26.47                  | 100            | V              | 25.0                | -4.6                          | 40.00             | 13.53          |
| 42.54              | 26.43                  | 100            | V              | 216.0               | -12.9                         | 40.00             | 13.57          |
| 50.96              | 19.52                  | 100            | V              | 89.0                | -18.0                         | 40.00             | 20.48          |
| 132.18             | 16.94                  | 100            | V              | 127.0               | -12.1                         | 43.50             | 26.56          |
| 241.12             | 25.42                  | 100            | H              | 358.0               | -12.6                         | 46.00             | 20.58          |
| 371.12             | 26.15                  | 100            | H              | 24.0                | -9.3                          | 46.00             | 19.85          |

**Note:**

- 1) Factor (dB) = Antenna Factor (dB/m) + Cable Loss (dB) + Amplifier Gain (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

## **§15.215(c) - 20dB EMISSION BANDWIDTH TESTING**

### **Requirement**

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### **Test Procedure**

With the EUT's antenna attached, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

### **Test Data**

#### **Environmental Conditions**

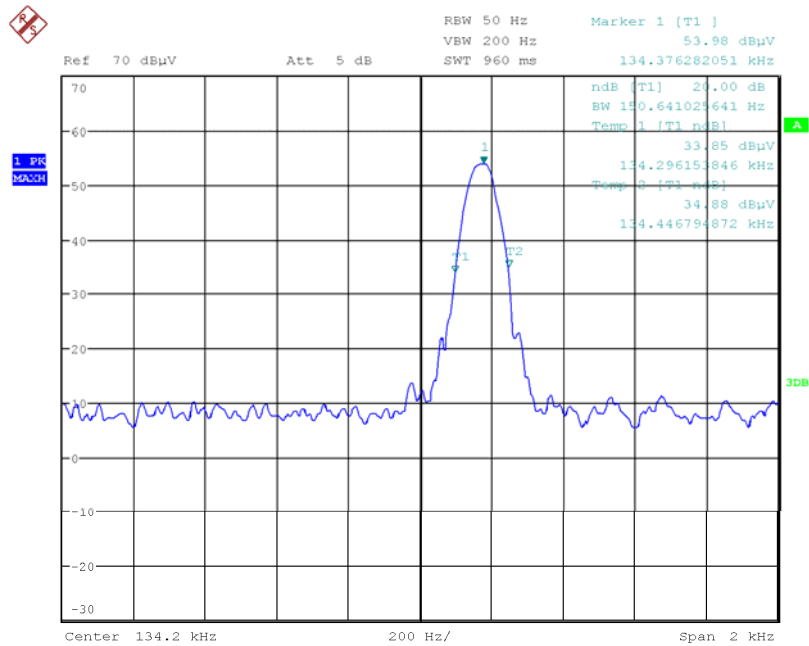
|                           |          |
|---------------------------|----------|
| <b>Temperature:</b>       | 24.2 °C  |
| <b>Relative Humidity:</b> | 48 %     |
| <b>ATM Pressure:</b>      | 101.2kPa |

*The testing was performed by Carry Cai on 2020-07-06.*

*Test Mode: Transmitting*

*Test Result: Compliant*

| Frequency<br>(kHz) | 20 dB Bandwidth<br>(kHz) |
|--------------------|--------------------------|
| 134.2              | 0.151                    |

**20 dB Emission Bandwidth**

Date: 6.JUL.2020 19:35:07

### **Declarations**

- 1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '\*'. Customer model name, addresses, names, trademarks etc. are not considered data.
- 2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- 3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $K$  with the 95% confidence interval.
- 5: This report cannot be reproduced except in full, without prior written approval of the Company.
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**\*\*\*\*\* END OF REPORT \*\*\*\*\***