

# FCC REPORT

**Applicant:** Neutron Holdings, Inc.

**Address of Applicant:** 85 2nd St, San Francisco, CA 94105 USA

**Equipment Under Test (EUT)**

Product Name: Central controller

Model No.: Lime-V3-US

Trade mark: Lime

**FCC ID:** 2APB2-LIME30US

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** 21 Feb., 2021

**Date of Test:** 22 Feb., to 30 Mar., 2021

**Date of report issued:** 31 Mar., 2021

**Test Result:** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 31 Mar., 2021 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Tested by:



Test Engineer

Date:

31 Mar., 2021

Reviewed by:



Project Engineer

Date:

31 Mar., 2021

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## 4 Test Summary

| Test Item                                                                                                                                        | Section in CFR 47 | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
| Conducted Emission                                                                                                                               | Part 15.107       | N/A    |
| Radiated Emission                                                                                                                                | Part 15.109       | Pass   |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. N/A: The EUT not applicable of the test item. |                   |        |
| Test Method:                                                                                                                                     | ANSI C63.4:2014   |        |

## 5 General Information

### 5.1 Client Information

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Applicant:             | Neutron Holdings, Inc.                                                                                                |
| Address:               | 85 2nd St, San Francisco, CA 94105 USA                                                                                |
| Manufacturer/ Factory: | Quectel Wireless Solutions Co., Ltd.                                                                                  |
| Address:               | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China |

### 5.2 General Description of E.U.T.

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Product Name:          | Central controller                                                            |
| Model No.:             | Lime-V3-US                                                                    |
| Power supply:          | Rechargeable Li-ion Battery DC3.7V, 1250mAh                                   |
| External power supply: | DC 36V                                                                        |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |

### 5.3 Test Mode and test samples plans

| Operating mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Detail description                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Working mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Keep the EUT in Wworking mode(Worst case) |
| The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. |                                           |
| <b>Test Samples Plans :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |
| Samples Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used for Test Items                       |
| 1#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Conducted Emission                        |
| 2#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Radiated Emission                         |
| 3#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EUT constructional details                |
| <b>Remark:</b> JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |

### 5.4 Measurement Uncertainty

| Parameters                          | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz)   | ±1.60 dB (k=2)       |
| Radiated Emission (9kHz ~ 30MHz)    | ±3.12 dB (k=2)       |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2)       |
| Radiated Emission (1GHz ~ 18GHz)    | ±5.16 dB (k=2)       |
| Radiated Emission (18GHz ~ 40GHz)   | ±3.20 dB (k=2)       |

## 5.5 Description of Support Units

| Manufacturer | Description | Model | S/N     | FCC ID/DoC |
|--------------|-------------|-------|---------|------------|
| LENOVO       | Laptop      | SL510 | 2847A65 | DoC        |

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

This is an original grant, no related submittals and grants.

## 5.7 Description of Cable Used

N/A

## 5.8 Additions to, deviations, or exclusions from the method

No

## 5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

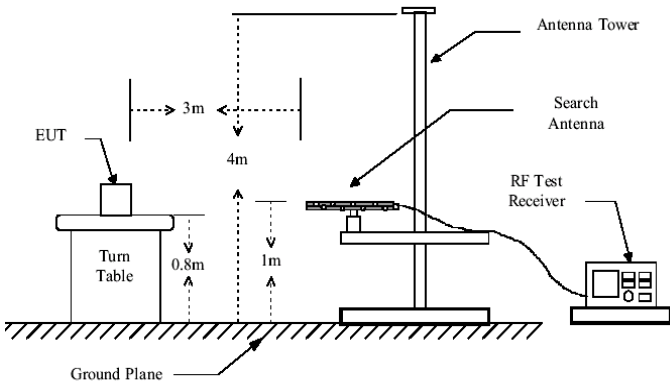
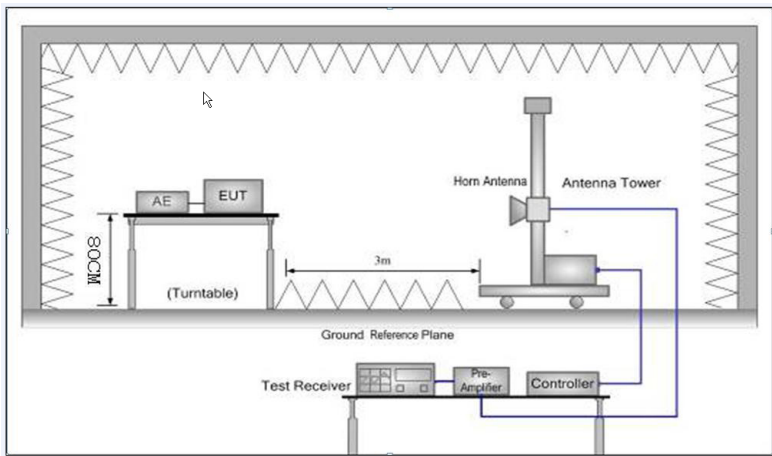
Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

## 5.11 Test Instruments list

| Radiated Emission: |                 |               |                    |                         |                             |
|--------------------|-----------------|---------------|--------------------|-------------------------|-----------------------------|
| Test Equipment     | Manufacturer    | Model No.     | Serial No.         | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |
| 3m SAC             | ETS             | 9m*6m*6m      | 966                | 01-19-2021              | 01-18-2024                  |
| Loop Antenna       | SCHWARZBECK     | FMZB1519B     | 00044              | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| BiConiLog Antenna  | SCHWARZBECK     | VULB9163      | 497                | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Horn Antenna       | SCHWARZBECK     | BBHA9120D     | 916                | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Horn Antenna       | SCHWARZBECK     | BBHA9120D     | 1805               | 06-18-2020              | 06-17-2021                  |
| Horn Antenna       | SCHWARZBECK     | BBHA 9170     | BBHA9170582        | 11-18-2020              | 11-17-2021                  |
| EMI Test Software  | AUDIX           | E3            | Version: 6.110919b |                         |                             |
| Pre-amplifier      | HP              | 8447D         | 2944A09358         | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Pre-amplifier      | CD              | PAP-1G18      | 11804              | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Spectrum analyzer  | Rohde & Schwarz | FSP30         | 101454             | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Spectrum analyzer  | Rohde & Schwarz | FSP40         | 100363             | 11-18-2020              | 11-17-2021                  |
| EMI Test Receiver  | Rohde & Schwarz | ESRP7         | 101070             | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Cable              | ZDECL           | Z108-NJ-NJ-81 | 1608458            | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Cable              | MICRO-COAX      | MFR64639      | K10742-5           | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |
| Cable              | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-03-2020              | 03-02-2021                  |
|                    |                 |               |                    | 03-03-2021              | 03-02-2022                  |

## 6 Test results and Measurement Data

### 6.1 Radiated Emission

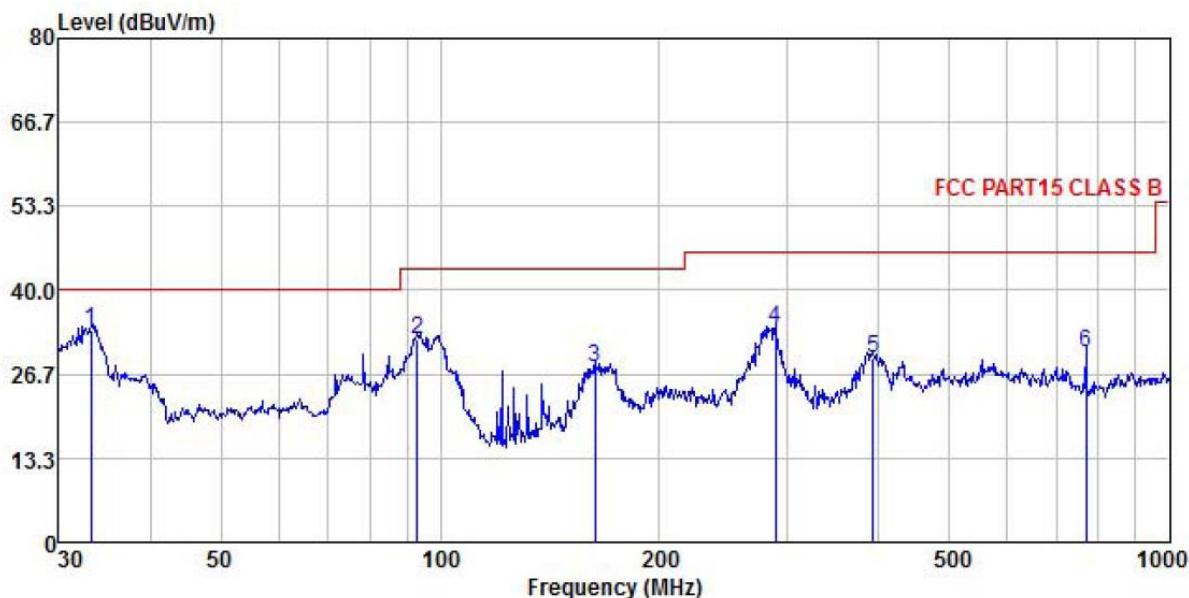
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                    |              |                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|--------------|-----------------------------|
| Test Requirement:     | FCC Part 15 B Section 15.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                    |              |                             |
| Test Frequency Range: | 30MHz to 6000MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                    |              |                             |
| Test site:            | Measurement Distance: 3m (Semi-Anechoic Chamber)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                    |              |                             |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Detector    | RBW                | VBW          | Remark                      |
|                       | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quasi-peak  | 120kHz             | 300kHz       | Quasi-peak Value            |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Peak<br>RMS | 1MHz<br>1MHz       | 3MHz<br>3MHz | Peak Value<br>Average Value |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | Limit (dBuV/m @3m) |              | Remark                      |
|                       | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 40.0               |              | Quasi-peak Value            |
|                       | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 43.5               |              | Quasi-peak Value            |
|                       | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 46.0               |              | Quasi-peak Value            |
|                       | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 54.0               |              | Quasi-peak Value            |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | 54.0<br>74.0       |              | Average Value<br>Peak Value |
| Test setup:           | Below 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                    |              |                             |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                    |              |                             |
| Test setup:           | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                    |              |                             |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                    |              |                             |
| Test Procedure:       | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both</div> |             |                    |              |                             |



|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <p>horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> |
| Test Instruments: | Refer to section 5.11 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Remark:           | All of the observed value above 6GHz were the noise floor , which were no recorded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Measurement Data:**
**Below 1GHz:**

|                        |                    |                       |                     |
|------------------------|--------------------|-----------------------|---------------------|
| <b>Product Name:</b>   | Central controller | <b>Product Model:</b> | Lime-V3-US          |
| <b>Test By:</b>        | YT                 | <b>Test mode:</b>     | Working mode        |
| <b>Test Frequency:</b> | 30 MHz ~ 1 GHz     | <b>Polarization:</b>  | Vertical            |
| <b>Test Voltage:</b>   | DC 36V             | <b>Environment:</b>   | Temp: 24℃ Humi: 57% |

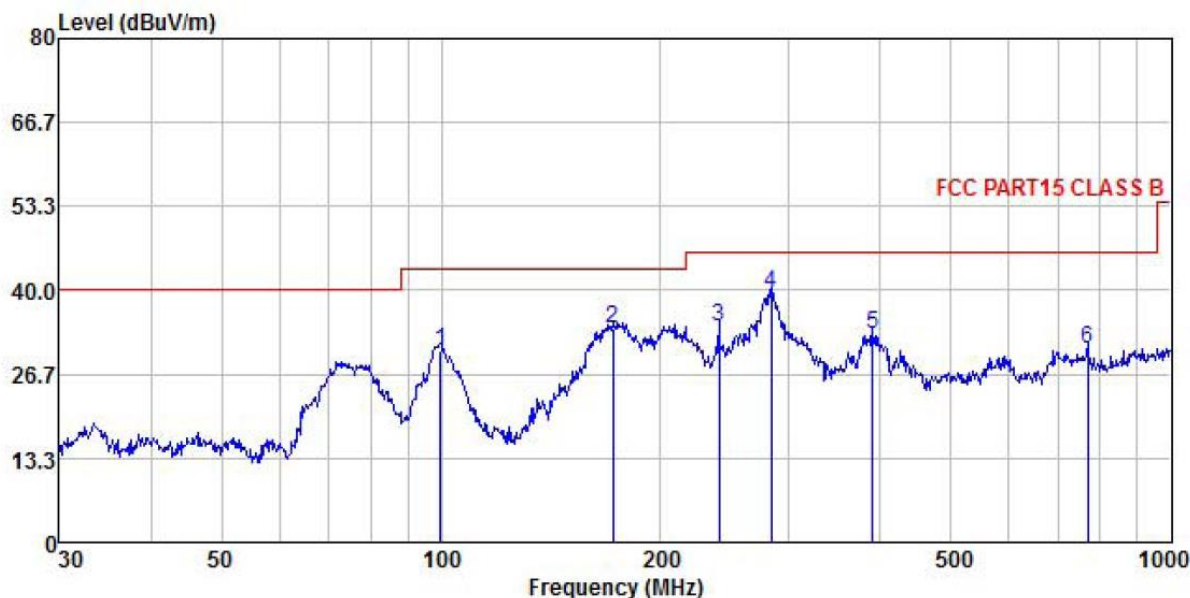


|   | Freq    | ReadAntenna | Cable  | Preamp | Level  | Limit  | Over   | Remark    |
|---|---------|-------------|--------|--------|--------|--------|--------|-----------|
|   | MHz     | Level       | Factor | Loss   | Factor | Line   | Limit  |           |
|   |         | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB        |
| 1 | 33.211  | 50.85       | 12.33  | 0.38   | 29.96  | 33.60  | 40.00  | -6.40 QP  |
| 2 | 93.113  | 51.52       | 9.44   | 0.75   | 29.56  | 32.15  | 43.50  | -11.35 QP |
| 3 | 163.182 | 40.00       | 15.57  | 1.15   | 29.11  | 27.61  | 43.50  | -15.89 QP |
| 4 | 287.990 | 41.94       | 18.65  | 1.71   | 28.47  | 33.83  | 46.00  | -12.17 QP |
| 5 | 392.095 | 36.95       | 19.05  | 2.01   | 28.75  | 29.26  | 46.00  | -16.74 QP |
| 6 | 768.748 | 34.59       | 20.72  | 3.03   | 28.37  | 29.97  | 46.00  | -16.03 QP |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

|                 |                    |                |                     |
|-----------------|--------------------|----------------|---------------------|
| Product Name:   | Central controller | Product Model: | Lime-V3-US          |
| Test By:        | YT                 | Test mode:     | Working mode        |
| Test Frequency: | 30 MHz ~ 1 GHz     | Polarization:  | Horizontal          |
| Test Voltage:   | DC 36V             | Environment:   | Temp: 24℃ Humi: 57% |



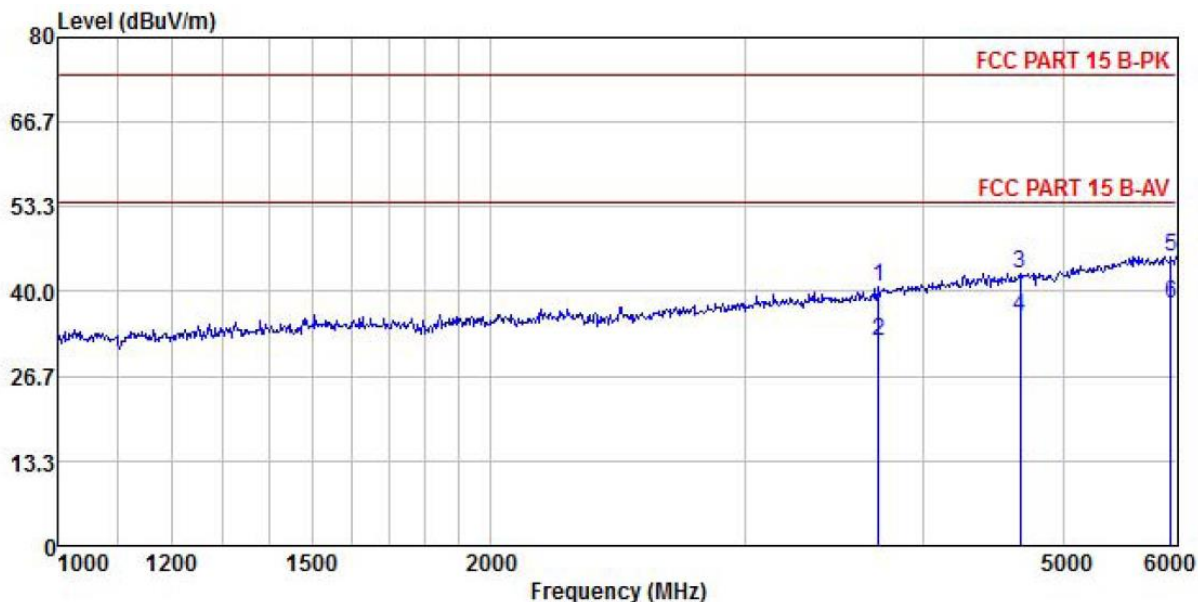
|   | Freq    | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit Line | Over Limit | Remark |
|---|---------|------------|----------------|------------|---------------|--------|------------|------------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m     | dB         |        |
| 1 | 99.878  | 50.45      | 8.80           | 0.79       | 29.53         | 30.51  | 43.50      | -12.99     | QP     |
| 2 | 171.995 | 45.17      | 16.61          | 1.22       | 29.03         | 33.97  | 43.50      | -9.53      | QP     |
| 3 | 239.987 | 42.95      | 18.46          | 1.53       | 28.59         | 34.35  | 46.00      | -11.65     | QP     |
| 4 | 282.985 | 47.65      | 18.63          | 1.69       | 28.48         | 39.49  | 46.00      | -6.51      | QP     |
| 5 | 390.723 | 40.78      | 19.04          | 2.00       | 28.74         | 33.08  | 46.00      | -12.92     | QP     |
| 6 | 768.748 | 35.24      | 20.72          | 3.03       | 28.37         | 30.62  | 46.00      | -15.38     | QP     |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

# Above 1GHz:

|                 |                    |                |                     |
|-----------------|--------------------|----------------|---------------------|
| Product Name:   | Central controller | Product Model: | Lime-V3-US          |
| Test By:        | YT                 | Test mode:     | Working mode        |
| Test Frequency: | 1 GHz ~ 6 GHz      | Polarization:  | Vertical            |
| Test Voltage:   | DC 36V             | Environment:   | Temp: 24℃ Humi: 57% |

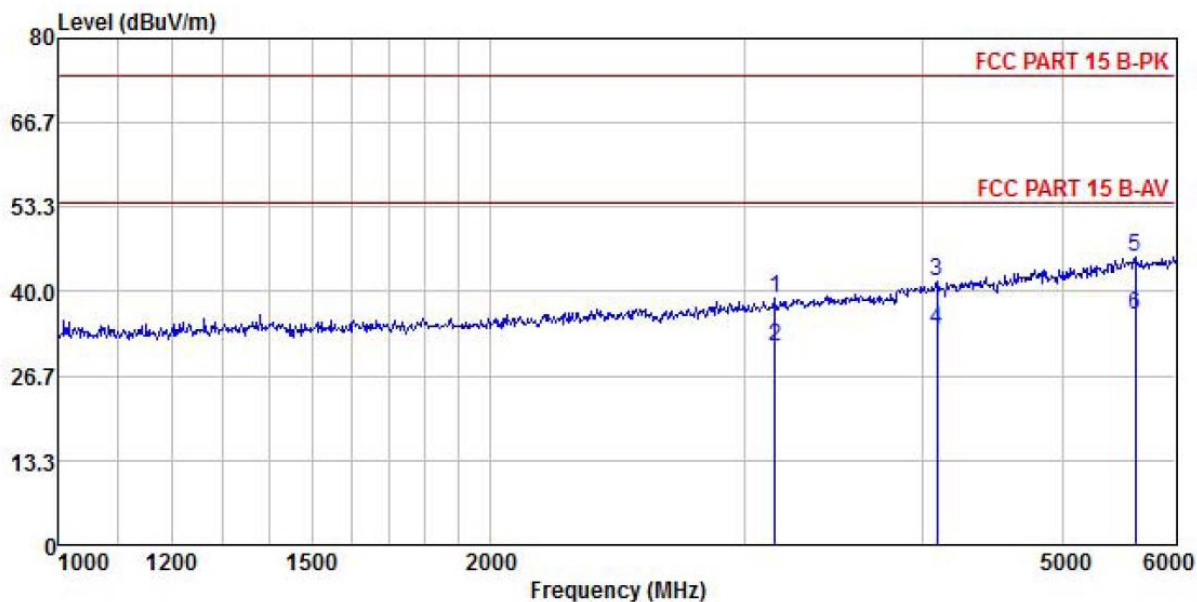


|      | ReadAntenna | Cable Preamp |       | Limit  | Over   |        |
|------|-------------|--------------|-------|--------|--------|--------|
| Freq | Level       | Factor       | Loss  | Factor | Level  | Line   |
| MHz  | dBuV        | dB/m         | dB    | dB     | dBuV/m | dBuV/m |
| 1    | 3719.128    | 44.02        | 28.97 | 9.47   | 41.68  | 40.78  |
| 2    | 3719.128    | 35.54        | 28.97 | 9.47   | 41.68  | 32.30  |
| 3    | 4670.008    | 43.88        | 30.49 | 10.59  | 42.03  | 42.93  |
| 4    | 4670.008    | 36.88        | 30.49 | 10.59  | 42.03  | 35.93  |
| 5    | 5944.424    | 43.20        | 32.48 | 11.93  | 42.04  | 45.57  |
| 6    | 5944.424    | 35.69        | 32.48 | 11.93  | 42.04  | 38.06  |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

|                 |                    |                |                     |
|-----------------|--------------------|----------------|---------------------|
| Product Name:   | Central controller | Product Model: | Lime-V3-US          |
| Test By:        | YT                 | Test mode:     | Working mode        |
| Test Frequency: | 1 GHz ~ 6 GHz      | Polarization:  | Horizontal          |
| Test Voltage:   | DC 36V             | Environment:   | Temp: 24℃ Humi: 57% |



|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m     | dB         |         |
| 1 | 3152.157 | 43.14      | 28.50          | 8.77       | 41.43         | 38.98  | 74.00      | -35.02     | Peak    |
| 2 | 3152.157 | 35.58      | 28.50          | 8.77       | 41.43         | 31.42  | 54.00      | -22.58     | Average |
| 3 | 4091.203 | 44.05      | 29.44          | 9.90       | 41.81         | 41.58  | 74.00      | -32.42     | Peak    |
| 4 | 4091.203 | 36.54      | 29.44          | 9.90       | 41.81         | 34.07  | 54.00      | -19.93     | Average |
| 5 | 5618.262 | 43.83      | 32.35          | 10.98      | 41.81         | 45.35  | 74.00      | -28.65     | Peak    |
| 6 | 5618.262 | 34.79      | 32.35          | 10.98      | 41.81         | 36.31  | 54.00      | -17.69     | Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.