



Test Report No.: FV181120W010-2



# EMC TEST REPORT

|            |   |
|------------|---|
| Applicant: | Beijing Niu Technology Co., Ltd   |
| Address:   | 11F, Fangheng Times Center Block A (Lianluo Building), No. 10 Wangjing street, Chaoyang, Beijing, China |

|                           |  |
|---------------------------|--|
| Manufacturer or Supplier: | Jiangsu Niu Electric Technology Co., Ltd.                  |
| Address:                  | No.5 Lingxiang Rd, WEZ, Wujin, Changzhou, Jiangsu Province |
| Product:                  | Alarm  |
| Brand Name:               | NIU  |
| Model Name:               | RP708-U1   |
| FCC ID:                   | 2AQ95-NIURP708-U1  |
| Date of tests:            | Nov. 20, 2018 ~ Jan. 06, 2019                              |

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- FCC Part 15, Subpart B, Class B**
- ANSI C63.4:2014**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Issued by Alex Chen  
Engineer / Mobile Department

Approved by Sam Tung  
Manager / Mobile Department

Date: Jan. 07, 2019

Date: Jan. 07, 2019

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**BUREAU**  
**VERITAS**

Test Report No.: FV181120W010-2

## RELEASE CONTROL RECORD

| ISSUE NO.      | REASON FOR CHANGE | DATE ISSUED   |
|----------------|-------------------|---------------|
| FV181120W010-2 | Original release  | Jan. 07, 2019 |



## 1 GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

|                            |                                  |
|----------------------------|----------------------------------|
| <b>PRODUCT</b>             | Alarm                            |
| <b>BRAND NAME</b>          | NIU                              |
| <b>MODEL NAME</b>          | RP708-U1                         |
| <b>NOMINAL VOLTAGE</b>     | DC 60V                           |
| <b>OPERATING FREQUENCY</b> | 315MHz                           |
| <b>HW VERSION</b>          | HR708-XNFCC-SG-BH-V2.0-C20181220 |
| <b>SW VERSION</b>          | HR-XN-HR8P506-A974               |
| <b>I/O PORTS</b>           | Refer to user's manual           |
| <b>CABLE SUPPLIED</b>      | N/A                              |
| <b>ACCESSORY DEVICES</b>   | Refer to note as below           |

**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

## 1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart B              |  |        |   |
|---|--|--------|---|
| Standard Section                                      | Test Item                                | Result | Remark  |
| FCC Part 15,<br>Subpart B, Class B<br>ANSI C63.4:2014 | Radiated Emission<br>Test (30MHz ~ 1GHz) | PASS   | Meets Class B Limit<br>Minimum passing margin is<br>-11.66dB at 944.71MHz |
|   | Radiated Emission<br>Test (Above 1GHz)   | PASS   | Meets Class B Limit<br>Minimum passing margin is<br>-10.42dB at 3150MHz   |

## 1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| MEASUREMENT        | FREQUENCY    | UNCERTAINTY |
|--------------------|--------------|-------------|
| Radiated emissions | 30MHz ~ 1GHz | +/-3.26dB   |
|                    | 1GHz ~ 18GHz | +/-4.48dB   |



### 1.4 DESCRIPTION OF TEST MODES

| Test Mode                     | Test Condition          |
|-------------------------------|-------------------------|
| <b>Radiated emission test</b> |                         |
| 1                             | 315 MHz Rx+ DC charging |

**NOTE:** When the alarm receives a signal from the 315MHZ from the remote control, the alarm will work for a ringtone.

### 1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### FOR EMISSION TESTS

| NO. | PRODUCT   | BRAND    | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-----------|----------|-----------|------------|--------|
| 1   | DC source | LONG WEI | PS-6403D  | 010934269  | N/A    |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1   | N/A   |

## 2 EMISSION TEST

### 2.1 RADIATED EMISSION MEASUREMENT

#### 2.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

**TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)**

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

| Radiated Emissions Limits at 10 meters (dB $\mu$ V/m) |                             |                             |                   |                   |
|---|-----------------------------|-----------------------------|-------------------|-------------------|
| Frequencies (MHz)                                     | FCC 15B / ICES-003, Class A | FCC 15B / ICES-003, Class B | CISPR 22, Class A | CISPR 22, Class B |
| 30-88   | 39                          | 29.5                        | 40                | 30                |
| 88-216  | 43.5                        | 33.1                        |                   |                   |
| 216-230   | 46.4                        | 35.6                        |                   |                   |
| 230-960   |                             |                             | 47                | 37                |
| 960-1000  | 49.5                        | 43.5                        | Not defined       | Not defined       |
| 1000-3000   | Avg: 49.5                   | Avg: 43.5                   |                   |                   |
| 3000+   | Peak: 69.5                  | Peak: 63.5                  |                   |                   |

| Radiated Emissions Limits at 3 meters (dB $\mu$ V/m) |                             |                             |                     |                     |
|--|-----------------------------|-----------------------------|---------------------|---------------------|
| Frequencies (MHz)                                    | FCC 15B / ICES-003, Class A | FCC 15B / ICES-003, Class B | CISPR 22, Class A   | CISPR 22, Class B   |
| 30-88  | 49.5                        | 40                          | 50.5                | 40.5                |
| 88-216   | 54                          | 43.5                        |                     |                     |
| 216-230  | 56.9                        | 46                          |                     |                     |
| 230-960  |                             |                             | 57.5                | 47.5                |
| 960-1000   | 60                          | 54                          | Avg: 56<br>Peak: 76 | Avg: 50<br>Peak: 70 |
| 1000-3000  | Avg: 60<br>Peak: 80         | Avg: 54<br>Peak: 74         |                     |                     |
| 3000+  |                             |                             |                     |                     |



Frequency Range (For unintentional radiators)

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz)                                     |
|--|--|
| Below 1.705  | 30   |
| 1.705-108  | 1000   |
| 108-500  | 2000   |
| 500-1000   | 5000   |
| Above 1000   | 5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower |

- NOTE:**
- The lower limit shall apply at the transition frequencies.
  - Emission level (dBuV/m) = 20 log Emission level (uV/m).
  - As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
  - QP detector shall be applied if not specified.

2.1.2 TEST INSTRUMENTS

Frequency range below 1GHz

| Equipment                | Manufacturer | Model No.  | Serial No.                  | Last Cal.  | Next Cal.  |
|--------------------------|--------------|------------|-----------------------------|------------|------------|
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m   | Euroshieldpn-CT0001143-1216 | Apr. 21,18 | Apr. 20,19 |
| Bilog Antenna            | ETS-LINDGREN | 3143B      | 00161965                    | Mar. 15,18 | Mar. 14,19 |
| MXE EMI Receiver         | KEYSIGHT     | N9038A-544 | MY54450026                  | Mar. 16,18 | Mar. 15,19 |
| Signal Pre-Amplifier     | EMSI         | EMC 9135   | 980249                      | Jul. 09,18 | Jul. 08,19 |

Frequency range above 1GHz

| Equipment                | Manufacturer | Model No.   | Serial No.                  | Last Cal.  | Next Cal.  |
|--------------------------|--------------|-------------|-----------------------------|------------|------------|
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m    | Euroshieldpn-CT0001143-1216 | Apr. 21,18 | Apr. 20,19 |
| Horn Antenna             | ETS-LINDGREN | 3117        | 00168728                    | Mar. 15,18 | Mar. 14,19 |
| MXE EMI Receiver         | KEYSIGHT     | N9038A-544  | MY54450026                  | Mar. 16,18 | Mar. 15,19 |
| Signal Pre-Amplifier     | EMSI         | EMC 012645B | 980257                      | Jul. 09,18 | Jul. 08,19 |

- NOTE:**
- The test was performed in 3m chamber.
  - The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  - The FCC Site Registration No. is 525120; The Designation No. is CN1171.



## 2.1.3 TEST PROCEDURE

### <Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

#### NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
5. Margin value = Emission level – Limit value.

### <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. 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.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

#### NOTE:

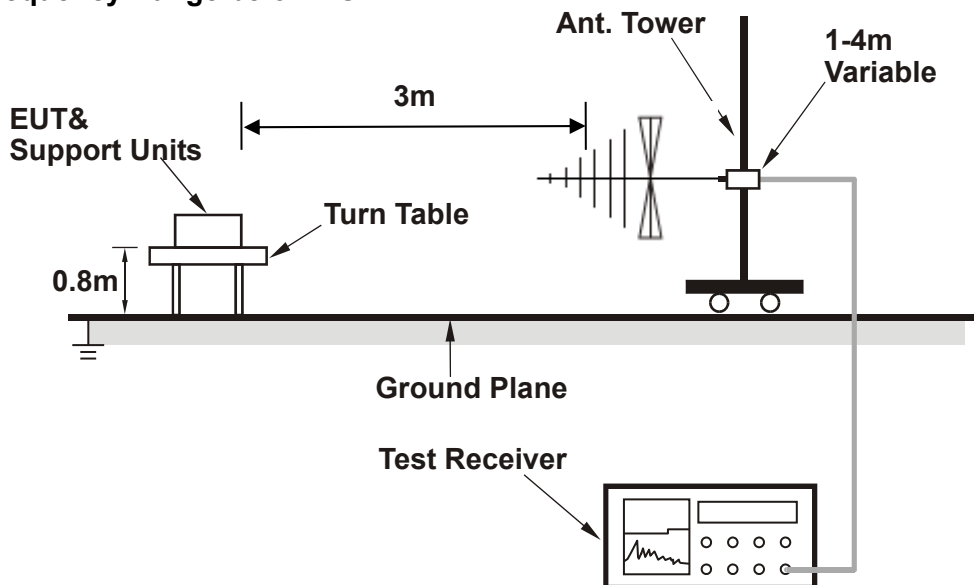
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 10Hz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier)
7. Margin value = Emission level – Limit value.

## 2.1.4 DEVIATION FROM TEST STANDARD

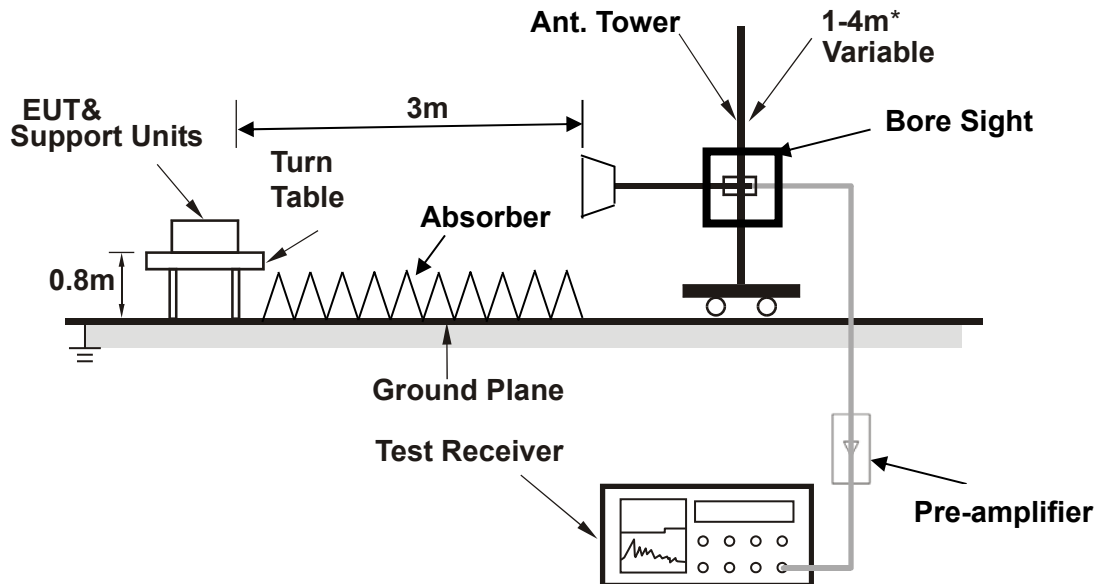
No deviation.

## 2.1.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



\* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.



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## 2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

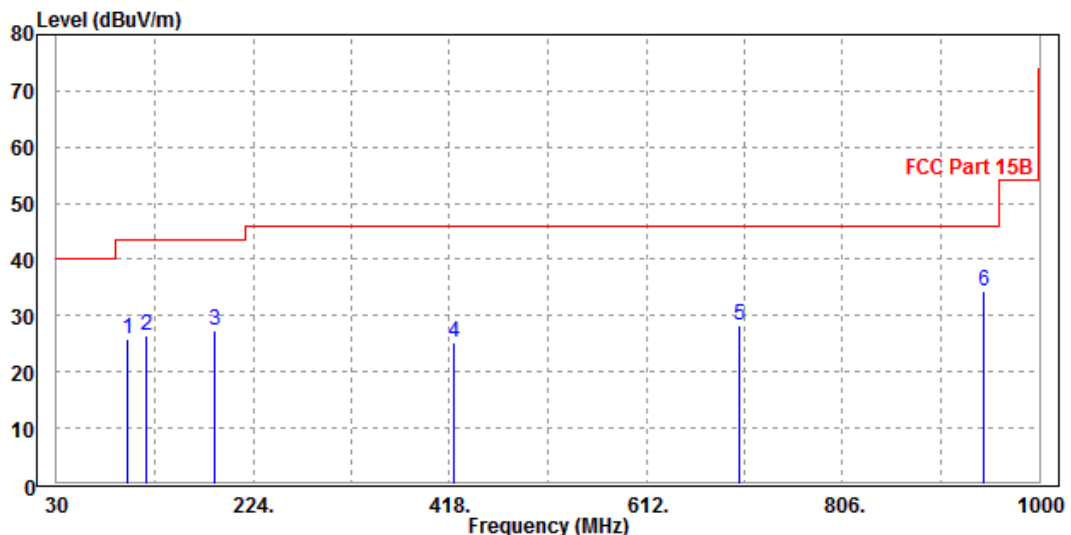


## 2.1.7 TEST RESULTS

|                                 |                                |   |                     |
|---------------------------------|--------------------------------|---|---------------------|
| <b>TEST VOLTAGE</b>             | DC 60V<br>Input 120 Vac, 60 Hz | <b>FREQUENCY RANGE</b>                              | 30-1000 MHz         |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23deg. C, 70 %RH               | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | Quasi-Peak, 120 kHz |
| <b>TESTED BY</b>                | Rose Ma                        |   |                     |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |               |                        |                 |                    |                     |                      |           |
|---|-------------------------|-------------------|----------------|---------------|------------------------|-----------------|--------------------|---------------------|----------------------|-----------|
| FREQ. (MHz)   | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB)   | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK    |
| 100.81  | 25.91                   | 52.41             | 43.5           | -17.59        | 9.17                   | 1.32            | 36.99              | 100                 | 96                   | QP        |
| 118.27  | 26.37                   | 53.4              | 43.5           | -17.13        | 8.47                   | 1.44            | 36.94              | 112                 | 300                  | QP        |
| 186.17  | 27.26                   | 51.92             | 43.5           | -16.24        | 10.25                  | 1.73            | 36.64              | 100                 | 260                  | QP        |
| 422.85  | 25.38                   | 42.14             | 46             | -20.62        | 17.31                  | 2.7             | 36.77              | 100                 | 140                  | QP        |
| 703.18  | 28.3                    | 39.42             | 46             | -17.7         | 22.71                  | 3.54            | 37.37              | 100                 | 170                  | QP        |
| <b>944.71</b>                                       | <b>34.34</b>            | <b>43.82</b>      | <b>46</b>      | <b>-11.66</b> | <b>23.8</b>            | <b>4.23</b>     | <b>37.51</b>       | <b>100</b>          | <b>148</b>           | <b>QP</b> |

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 30MHz to 1000MHz.
  4. Only emissions significantly above equipment noise floor are reported.





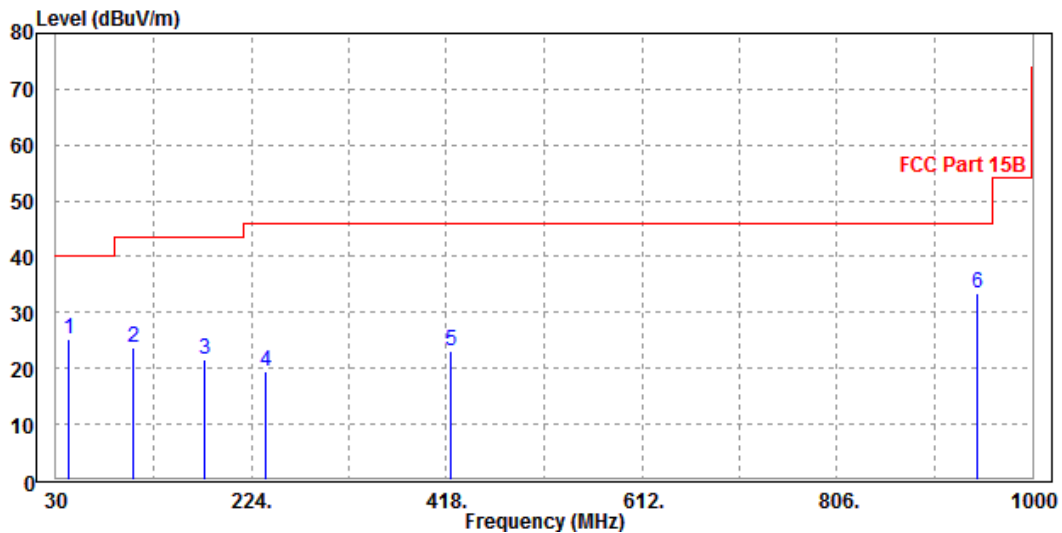
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|                                 |                                |   |                     |
|---------------------------------|--------------------------------|---|---------------------|
| <b>TEST VOLTAGE</b>             | DC 60V<br>Input 120 Vac, 60 Hz | <b>FREQUENCY RANGE</b>                              | 30-1000 MHz         |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23deg. C, 70 %RH               | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | Quasi-Peak, 120 kHz |
| <b>TESTED BY</b>                | Rose Ma                        |   |                     |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |        |
|---|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|--------|
| FREQ. (MHz)                                       | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK |
| 42.61   | 25.25                   | 53.29             | 40             | -14.75      | 8.44                   | 0.98            | 37.46              | 200                 | 146                  | QP     |
| 106.63  | 23.68                   | 50.36             | 43.5           | -19.82      | 8.93                   | 1.36            | 36.97              | 114                 | 237                  | QP     |
| 177.44  | 21.73                   | 46.58             | 43.5           | -21.77      | 10.16                  | 1.69            | 36.7               | 200                 | 186                  | QP     |
| 237.58  | 19.47                   | 41.83             | 46             | -26.53      | 12.18                  | 1.98            | 36.52              | 200                 | 113                  | QP     |
| 422.85  | 23.1                    | 39.86             | 46             | -22.9       | 17.31                  | 2.7             | 36.77              | 147                 | 288                  | QP     |
| 944.71  | 33.45                   | 42.93             | 46             | -12.55      | 23.8                   | 4.23            | 37.51              | 200                 | 100                  | QP     |

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 30MHz to 1000MHz.
  4. Only emissions significantly above equipment noise floor are reported.





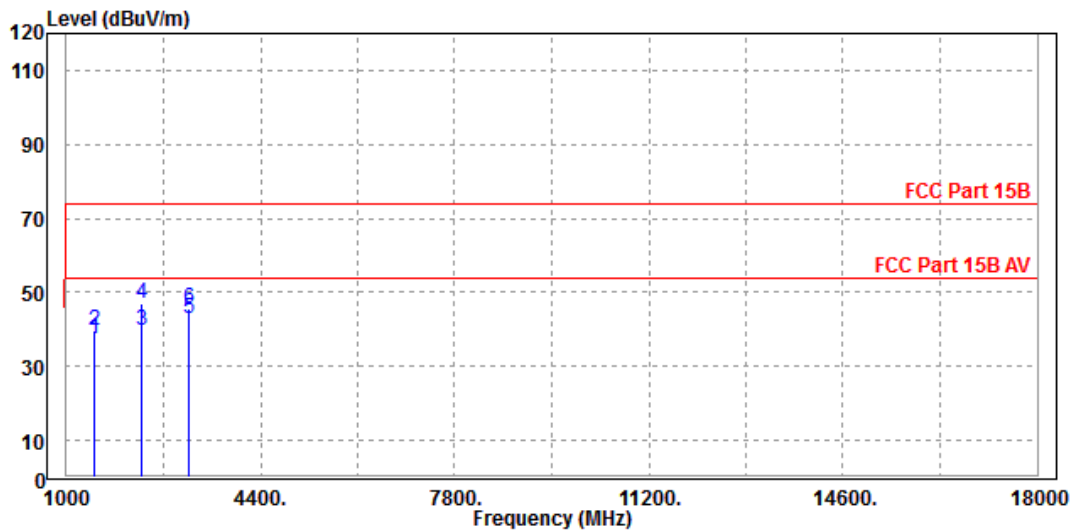
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**Test Report No.: FV181120W010-2**

|                                 |                                |   |                     |
|---------------------------------|--------------------------------|---|---------------------|
| <b>TEST VOLTAGE</b>             | DC 60V<br>Input 120 Vac, 60 Hz | <b>FREQUENCY RANGE</b>                              | 1-18 GHz            |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23deg. C, 70 %RH               | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | Peak/Average, 1 MHz |
| <b>TESTED BY</b>                | Rose Ma                        |   |                     |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|---|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)   | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 1485  | 37.63                   | 50.99             | 54             | -16.37      | 28.72                  | 6.28            | 48.36              | 100                 | 189                  | Average |
| 1485  | 39.87                   | 53.23             | 74             | -34.13      | 28.72                  | 6.28            | 48.36              | 100                 | 189                  | Peak    |
| 2325  | 39.82                   | 47.88             | 54             | -14.18      | 32.23                  | 8.03            | 48.32              | 130                 | 275                  | Average |
| 2325  | 46.85                   | 54.91             | 74             | -27.15      | 32.23                  | 8.03            | 48.32              | 130                 | 275                  | Peak    |
| 3152  | 42.97                   | 48.96             | 54             | -11.03      | 32.93                  | 9.43            | 48.35              | 175                 | 298                  | Average |
| 3152  | 45.48                   | 51.47             | 74             | -28.52      | 32.93                  | 9.43            | 48.35              | 175                 | 298                  | Peak    |

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 1GHz to 18GHz.
  4. Only emissions significantly above equipment noise floor are reported.





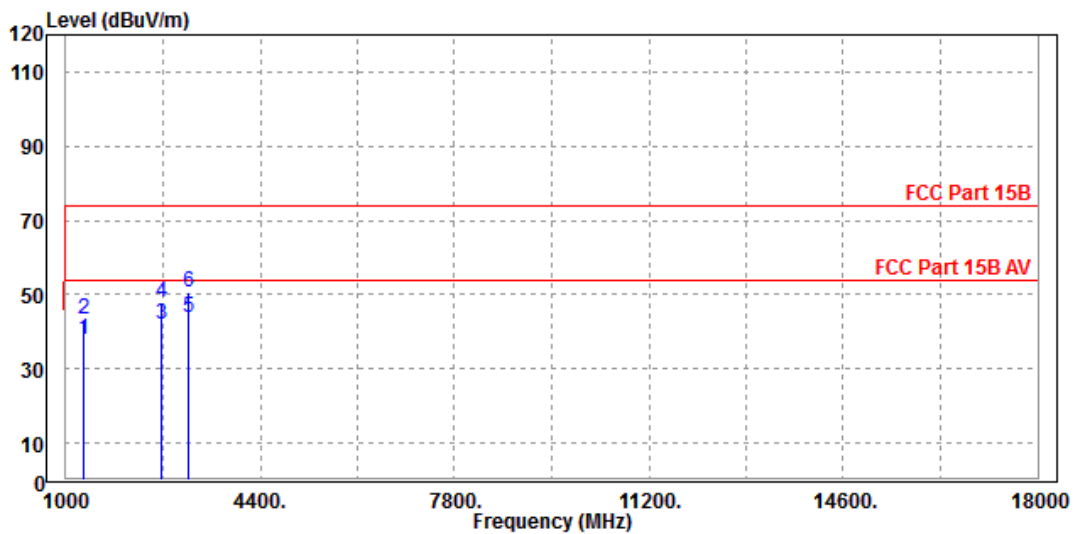
**BUREAU  
VERITAS**

**Test Report No.: FV181120W010-2**

|                                 |                                |   |                     |
|---------------------------------|--------------------------------|---|---------------------|
| <b>TEST VOLTAGE</b>             | DC 60V<br>Input 120 Vac, 60 Hz | <b>FREQUENCY RANGE</b>                              | 1-18 GHz            |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23deg. C, 70 %RH               | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | Peak/Average, 1 MHz |
| <b>TESTED BY</b>                | Rose Ma                        |   |                     |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |                         |                   |                |               |                        |                 |                    |                     |                      |                |
|--|-------------------------|-------------------|----------------|---------------|------------------------|-----------------|--------------------|---------------------|----------------------|----------------|
| FREQ. (MHz)  | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB)   | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK         |
| 1297   | 37.88                   | 51.5              | 54             | -16.12        | 28.9                   | 5.84            | 48.36              | 100                 | 232                  | Average        |
| 1297   | 43.18                   | 56.8              | 74             | -30.82        | 28.9                   | 5.84            | 48.36              | 100                 | 232                  | Peak           |
| 2680   | 41.89                   | 48.96             | 54             | -12.11        | 32.58                  | 8.66            | 48.31              | 100                 | 240                  | Average        |
| 2680   | 48.05                   | 55.12             | 74             | -25.95        | 32.58                  | 8.66            | 48.31              | 100                 | 240                  | Peak           |
| <b>3150</b>  | <b>43.58</b>            | <b>49.57</b>      | <b>54</b>      | <b>-10.42</b> | <b>32.93</b>           | <b>9.43</b>     | <b>48.35</b>       | <b>100</b>          | <b>300</b>           | <b>Average</b> |
| 3150   | 50.78                   | 56.77             | 74             | -23.22        | 32.93                  | 9.43            | 48.35              | 100                 | 300                  | Peak           |

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 1GHz to 18GHz.
  4. Only emissions significantly above equipment noise floor are reported.







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### 3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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