



## **TEST REPORT**

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Product Name: Amateur Radio

FCC ID: 2AJGM-UV28PRO

Standard(s): FCC Part 15B ANSI C63.4-2014 Report Number: 2402Z61855E-RF-00B

**Report Date: 2025/2/7** 

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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## **DOCUMENT REVISION HISTORY**

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2402Z61855E-RF-00B | Original Report         | 2025/2/7         |

## **1. GENERAL INFORMATION**

## 1.1 General Description Of Equipment under Test

| FUT Name:   | Amateur Radio                               |  |  |
|---|---|--|--|
| EOT Maine.  | Amateur Radio                               |  |  |
| EUT Model:  | UV-28PRO                                    |  |  |
| Multiple Model:   | MX-28GB, AR-28GB, AT-28GB, TD-28GB, NA-28GB |  |  |
| Highest Operation Frequency <sup>▲</sup> :  | 2480MHz                                     |  |  |
| Rated Input Voltage:  | DC 7.4V from battery or DC 5V from adapter  |  |  |
| Serial Number:  | 2UW6-1                                      |  |  |
| EUT Received Date:  | : 2024/11/22                                |  |  |
| EUT Received Status:  | EUT Received Status: Good                   |  |  |
| Note:   |   |  |  |
| The multiple models are electrically identical with the test model. Places refer to the deeleration letter for more |   |  |  |
| The multiple models are electrically identical with the test model. Flease feler to the declaration felter for more |   |  |  |
| detail, which was provided by manufacturer.   |   |  |  |

#### **1.2 Accessory Information**

| Accessory Description | Manufacturer                               | Model            | Parameters   |
|-----------------------|--|------------------|--|
| Adapter               | Jiangxi Jian Aohai<br>Technology Co., Ltd. | A318-050100W-US2 | Input: 100-240Vac 50/60Hz<br>0.2A<br>Output: 5Vdc 1A |

## **1.3 Equipment Modifications**

No modifications are made to the EUT during all test items.

## 2. SUMMARY OF TEST RESULTS

| Standard Clause | Description of Test   | Test Result |
|-----------------|---|-------------|
| FCC§15.107      | Conducted emissions   | Compliant   |
| FCC§15.109      | Radiated emissions  | Compliant   |
| FCC§15.121(b)   | Scanning receivers and frequency converters used with<br>scanning receivers | Compliant   |

## **3. DESCRIPTION OF TEST CONFIGURATION**

## **3.1 Operation Frequency And Test Channel:**

| Operation Modes | Operation Frequency Range<br>(MHz) | Test Frequency<br>(MHz) |
|-----------------|------------------------------------|-------------------------|
|                 | 108-136                            | 108-136                 |
|                 | 136-174                            | 136-174                 |
| Scanning        | 220-260                            | 220-260                 |
|                 | 350-390                            | 350-390                 |
|                 | 400-520                            | 400-520                 |
|                 | 108-136                            | 108.0125, 122, 135.9875 |
| Receiving       | 136-174                            | 136.0125, 155, 173.9875 |
|                 | 220-260                            | 220.0125, 240, 259.9875 |
|                 | 350-390                            | 350.0125, 370, 389.9875 |
|                 | 400-520                            | 400.0125, 460, 519.9875 |

#### **3.2 Description of Test Configuration**

The system was configured for testing in a typical fashion (as normally used by a typical user). The following summary table is showing all test modes to demonstrate in compliance with the standard:

| Test Items        | Test Mode(s)           |  |
|-------------------|------------------------|--|
| Radiated Spurious | Test Mode 1: Scanning  |  |
| Emission :        | Test Mode 2: Receiving |  |
| AC Line Conducted | Test Mode 1: Scanning  |  |
| Emission          | Test Mode 2: Receiving |  |

#### **3.3 EUT Exercise Software**

No software was used to test.

#### **3.4 Support Equipment List and Details**

| Manufacturer | Description                   | Model   | Serial Number |
|--------------|-------------------------------|---------|---------------|
| Unknown      | Antenna                       | Unknown | Antenna 02    |
| Unknown      | Antenna                       | Unknown | Antenna 01    |
| HP           | RF Communications<br>Test Set | 8920A   | 3438A05201    |

#### **3.5 Support Cable List and Details**

| Cable<br>Description | Shielding<br>Cable | Ferrite<br>Core | Length<br>(m) | From Port | То    |
|----------------------|--------------------|-----------------|---------------|-----------|-------|
| Adapter Cable        | No                 | No              | 0.8           | Adapter   | EUT   |
| Earphone Cable       | No                 | No              | 1.2           | Earphone  | EUT   |
| Antenna Cable        | No                 | No              | 10            | Antenna   | 8920A |

## **3.6 Block Diagram of Test Setup**

AC Line conducted Emission:



#### Radiated Emission:



#### **3.7 Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

#### 3.8 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

| Parameter                         | Measurement Uncertainty                     |  |
|-----------------------------------|---|--|
|                                   | 9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB    |  |
| Unwanted Emissions, radiated      | 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB    |  |
|                                   | 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz: 5.47 dB |  |
|                                   | 26.5GHz~40GHz: 5.63 dB                      |  |
| AC Power Lines Conducted Emission | 3.11 dB (150 kHz to 30 MHz)                 |  |
| Temperature                       | ±1°C  |  |
| Humidity                          | $\pm 5\%$                                   |  |

## 4. REQUIREMENTS AND TEST PROCEDURES

#### 4.1 AC Line Conducted Emissions

#### 4.1.1 Applicable Standard

#### FCC§15.107

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$  H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges

| Frequency of omission (MHz) | Conducted limit (dBµV) |           |  |
|-----------------------------|------------------------|-----------|--|
| requency of emission (MHZ)  | Quasi-peak             | Average   |  |
| 0.15-0.5                    | 66 to 56*              | 56 to 46* |  |
| 0.5-5                       | 56                     | 46        |  |
| 5-30                        | 60                     | 50        |  |

\*Decreases with the logarithm of the frequency.

#### 4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

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

#### 4.1.3 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  |

#### 4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductors, or the six highest emissions should be reported over all the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

#### 4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

#### 4.1.6 Test Result and Data

| Serial Number: | 2UW6-1    | Test Date:   | 2024/12/02 |
|----------------|-----------|--------------|------------|
| Test Site:     | CE        | Test Mode:   | M1-M2      |
| Tester:        | Yukin Qiu | Test Result: | Pass       |

#### **Environmental Conditions:**

| Temperature:<br>(°C) 22.3 | Relative<br>Humidity: 53<br>(%) | ATM Pressure:<br>(kPa) | 101.6 |
|---------------------------|---------------------------------|------------------------|-------|
|---------------------------|---------------------------------|------------------------|-------|

#### **Test Equipment List and Details:**

| Manufacturer | Description          | Model     | Serial<br>Number | Calibration Date | Calibration Due Date |
|--------------|----------------------|-----------|------------------|------------------|----------------------|
| R&S          | LISN                 | ENV216    | 101614           | 2024/9/5         | 2025/9/4             |
| MICRO-COAX   | Coaxial<br>Cable     | C-NJNJ-50 | C-0200-01        | 2024/9/5         | 2025/9/4             |
| R&S          | EMI Test<br>Receiver | ESCI      | 100035           | 2024/8/26        | 2025/8/25            |
| Audix        | Test Software        | E3        | 191218 V9        | N/A              | N/A                  |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### Scanning Mode(108-136MHz was tested):





#### Receiving Mode(122MHz was tested):



0.98

1.10

1.10

19.20

30.19

20.10

10.85

10.85

10.85

30.05

41.04

30.95

46.00

56.00

46.00

15.95

14.96

15.05

Average

Average

QP

10

11

12



## 4.2 Radiation Spurious Emissions

#### 4.2.1 Applicable Standard

#### FCC§15.109

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency of emission (MHz) | Field strength (microvolts/meter) |
|-----------------------------|-----------------------------------|
| 30-88                       | 100                               |
| 88-216                      | 150                               |
| 216-960                     | 200                               |
| Above 960                   | 500                               |

#### 4.2.2 Test System Setup

Below 1GHz:



#### Above 1GHz:



The radiated emission tests were performed at the 3 meters distance, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15B Class B limits.

#### 4.2.3 EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

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

| Frequency Range  | RBW     | Video B/W | IF B/W | Measurement |
|------------------|---------|-----------|--------|-------------|
| 20MHz 1000 MHz   | 100 kHz | 300 kHz   | /      | Peak        |
| 30MHZ – 1000 MHZ | /       | /         | 120kHz | QP          |
| Above 1 CHz      | 1 MHz   | 3 MHz     | /      | Peak        |
| Above I GHz      | 1 MHz   | 10Hz      | /      | AVG         |

#### 4.2.4 Test Procedure

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

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

If the maximized peak measured value complies with under the QP limit more than 6dB, then it is unnecessary to perform a QP measurement.

If the maximized peak measured value complies with under the Average limit, then it is unnecessary to perform an Average measurement.

#### 4.2.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

#### 4.2.6 Test Result and Data

| Serial Number: | 2UW6-1                | Test Date:   | 2025/1/4~2025/1/12 |
|----------------|-----------------------|--------------|--------------------|
| Test Site:     | Chamber10m, Chamber B | Test Mode:   | M1~M2              |
| Tester:        | Zoo Zou, Leo Xiao     | Test Result: | Pass               |

| Environmental Conditions: |           |                              |       |                        |       |  |
|---------------------------|-----------|------------------------------|-------|------------------------|-------|--|
| Temperature:<br>(℃)       | 19.2~21.6 | Relative<br>Humidity:<br>(%) | 30~40 | ATM Pressure:<br>(kPa) | 102.2 |  |

#### **Test Equipment List and Details:**

| Manufacturer         | Description   | Model                       | Serial<br>Number        | Calibration Date | Calibration Due<br>Date |
|----------------------|---|-----------------------------|-------------------------|------------------|-------------------------|
| Sunol Sciences       | Hybrid Antenna  | JB3                         | A060611-1               | 2023/9/6         | 2026/9/5                |
| Narda                | Coaxial<br>Attenuator   | 779-6dB                     | 04269                   | 2023/9/6         | 2026/9/5                |
| Unknown              | Coaxial Cable   | C-NJNJ-50                   | C-1000-01               | 2024/7/1         | 2025/6/30               |
| Unknown              | Coaxial Cable   | C-NJNJ-50                   | C-0400-04               | 2024/7/1         | 2025/6/30               |
| Unknown              | Coaxial Cable   | C-NJNJ-50                   | C-0530-01               | 2024/7/1         | 2025/6/30               |
| Sonoma               | Amplifier   | 310N                        | 185914                  | 2024/8/26        | 2025/8/25               |
| R&S                  | EMI Test<br>Receiver  | ESCI                        | 100224                  | 2024/8/26        | 2025/8/25               |
| Audix                | Test Software   | E3                          | 191218 V9               | N/A              | N/A                     |
| ETS-Lindgren         | Horn Antenna  | 3115                        | 000 527 35              | 2023/9/7         | 2026/9/6                |
| Xinhang<br>Macrowave | Coaxial Cable   | XH750A-N/J-<br>SMA/J-10M    | 20231117004<br>#0001    | 2024/11/17       | 2025/11/16              |
| AH                   | Preamplifier  | PAM-0118P                   | 469                     | 2024/4/15        | 2025/4/15               |
| R&S                  | Spectrum<br>Analyzer  | FSV40                       | 101944                  | 2024/9/6         | 2025/9/5                |
| Decentest            | Multiplex<br>Switch Test<br>Control Set<br>&<br>Filter Switch<br>Unit | DT7220SCU<br>&<br>DT7220FCU | DC79902<br>&<br>DC79905 | 2024/8/27        | 2025/8/26               |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### 1) 30MHz-1GHz:

Scanning Mode:

108-136MHz:





























Bay Area Compliance Laboratories Corp. (Dongguan)

# Receiving Mode: 108.0125MHz:











#### 135.9875MHz:





#### 136.0125MHz:





QP 6dB

1000

\_\_\_\_

Peak

Peak

Peak

#### 155MHz: Project No.: 2402Z61855E-RF Serial No.: 2UW6-1 Polarization: Horizontal Tester: Zoo Zou Test Mode: M2 Note: 155 RBW:100kHz VBW:300kHz Date: 2025-01-04 80 Level (dBuV/m) 70.0 S& Signal 60.0 50.0 40.0 6 5 30.0 20.0 10.0 0 30 224. 418. 612. 806. Frequency (MHz) Reading Factor Result Limit Margin Detector No. Frequency (MHz) (dBµV) (dB/m) $(dB\mu V/m)$ $(dB\mu V/m)$ (dB) \_\_\_\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ ----------\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 1 30.000 27.91 -3.80 24.11 40.00 15.89 Peak 2 66.860 38.46 -16.42 22.04 40.00 17.96 Peak З 97.900 44.24 -14.83 29.41 43.50 14.09 Peak

-9.92

-7.05

-4.75

36.06

35.51

36.38

26.14

28.46

31.63

43.50

46.00

46.00

17.36

17.54

14.37

4

5

6

123.120

396.660

478.140



#### 173.9875MHz:





#### 220.0125MHz:





#### 240MHz:





#### 259.9875MHz:





#### 350.0125MHz:















#### 389.9875MHz:







#### 400.0125MHz:







#### 460MHz: Project No.: 2402Z61855E-RF Serial No.: 2UW6-1 Polarization: Horizontal Tester: Zoo Zou Test Mode: M2 Note: 460 RBW:100kHz VBW:300kHz Date: 2025-01-04 80 Level (dBuV/m) 70.0 SG Signal 60.0 QP 6dB 50.0 40.0 30.0 20.0 10.0 0 30 224. 418. 612. 806. 1000 Frequency (MHz) Frequency Reading Factor Result Limit Margin Detector No. (MHz) (dBµV) (dB/m) $(dB\mu V/m)$ $(dB\mu V/m)$ (dB) \_\_\_\_ \_ \_ \_ \_ \_ \_ \_\_\_\_ \_ \_ \_ ----------\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 1 30.000 27.85 -3.80 24.05 40.00 15.95 Peak 2 66.860 38.91 -16.42 22.49 40.00 17.51 Peak З 95.960 45.12 -15.22 29.90 43.50 13.60 Peak 4 -9.94 25.98 43.50 17.52 121.180 35.92 Peak 5 392.780 35.31 -7.16 28.15 46.00 17.85 Peak 6 480.080 35.63 -4.71 30.92 46.00 15.08 Peak





#### 519.9875MHz:







Bay Area Compliance Laboratories Corp. (Dongguan)

#### 2) 1GHz-13GHz:

Scanning Mode(400-520MHz was the worst):











#### 4.3 Scanning Receivers and Frequency Converters Used with Scanning Receivers

#### 4.3.1 Applicable Standard

#### FCC §15.121(b).

(b) Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

#### 4.3.2 Test Procedure

1. Connected the EUT as the below block diagram;



Apply a signal to the EUT antenna port at lowest, middle, highest channel frequencies of the operating band;
Adjust the audio output level of the EUT to it's rated value with the distortion less than 10%;

4. Adjust the 8920 output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the 8920 at each channel frequency is the sensitivity of the EUT;

5. Select the lowest or worst case sensitivity level for all of the bands as the reference sensitivity;

6. Adjust the Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5 and its frequency to the frequency point in the Cellular Band;

7. Set the EUT squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level;

8. Set the EUT in a scanning mode and allow it to scan through it's complete receiving range;

9. If the EUT un-squelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB; 10. Repeat above procedure at the frequencies 824, 836, 849 MHz for the mobile band, and 869, 881.5 and 894 MHz for the Cellular Base Band.

#### 4.3.3 Scanning Receivers and Frequency Converters Used with Scanning Receivers

| Serial Number: | 2UW6-1   | Test Date:   | 2025/1/15 |
|----------------|----------|--------------|-----------|
| Test Site:     | RF       | Test Mode:   | Scanning  |
| Tester:        | Stu Song | Test Result: | Pass      |

## Environmental Conditions:

| Temperature:<br>(°C) 21.7 | Relative<br>Humidity:<br>(%) | 39 | ATM<br>Pressure:<br>(kPa) | 101.7 |
|---------------------------|------------------------------|----|---------------------------|-------|
|---------------------------|------------------------------|----|---------------------------|-------|

#### **Test Equipment List and Details:**

| Manufacturer  | Description                           | Model        | Serial<br>Number | Calibration<br>Date | Calibration<br>Due Date |
|---------------|---------------------------------------|--------------|------------------|---------------------|-------------------------|
| Micro-Coax    | Coaxial Cable                         | UFB205A      | 323308-015       | 2024/6/1            | 2025/5/31               |
| Micro-Coax    | Coaxial Cable                         | UFB205A      | 323308-018       | 2024/6/1            | 2025/5/31               |
| Micro-Coax    | Coaxial Cable                         | UFB205A      | 323308-012       | 2024/6/1            | 2025/5/31               |
| Huaxiang      | Coaxial Attenuator                    | DTS250-30    | 11022109         | 2024/6/7            | 2025/6/6                |
| HP            | RF Communications Test<br>Set         | 8920A        | 3438A05201       | 2024/10/17          | 2025/10/16              |
| Agilent       | MXG Vector Signal<br>Generator        | N5182B       | MY51350142       | 2024/8/26           | 2025/8/25               |
| Mini-Circuits | Coaxial Power Splitters &<br>Combiner | ZFRSC-183-S+ | SF448201614      | 2024/2/25           | 2025/2/24               |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### Test Data:

| Scanning Frequency<br>Range | Test Frequency                 | Measurement Result | Limit |
|-----------------------------|--------------------------------|--------------------|-------|
| MHz                         | MHz                            | dB                 | dB    |
| 108-136                     | 824, 836, 849, 869, 881.5, 894 | 41                 | >38   |
| 136-174                     | 824, 836, 849, 869, 881.5, 894 | 44                 | >38   |
| 220-260                     | 824, 836, 849, 869, 881.5, 894 | 46                 | >38   |
| 350-390                     | 824, 836, 849, 869, 881.5, 894 | 43                 | >38   |
| 400-520                     | 824, 836, 849, 869, 881.5, 894 | 45                 | >38   |

## **EXHIBIT A - EUT PHOTOGRAPHS**

Please refer to the attachment 2402Z61855E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402Z61855E-RF-INP EUT INTERNAL PHOTOGRAPHS

## EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402Z61855E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

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